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LOGINID:SSSPTA1626GMS

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TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	FEB 28	PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS	4	FEB 28	BABS - Current-awareness alerts (SDIs) available
NEWS	5	MAR 02	GBFULL: New full-text patent database on STN
NEWS	6	MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS	7	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	8	MAR 22	KOREAPAT now updated monthly; patent information enhanced
NEWS	9	MAR 22	Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS	10	MAR 22	PATDPASPC - New patent database available
NEWS	11	MAR 22	REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS	12	APR 04	EPFULL enhanced with additional patent information and new fields
NEWS	13	APR 04	EMBASE - Database reloaded and enhanced
NEWS	14	APR 18	New CAS Information Use Policies available online
NEWS	15	APR 25	Patent searching, including current-awareness alerts (SDIs), based on application date in CA/CAplus and USPATFULL/USPAT2 may be affected by a change in filing date for U.S. applications.
NEWS	16	APR 28	Improved searching of U.S. Patent Classifications for U.S. patent records in CA/CAplus
NEWS	17	MAY 23	GBFULL enhanced with patent drawing images
NEWS	18	MAY 23	REGISTRY has been enhanced with source information from CHEMCATS
NEWS	19	JUN 06	The Analysis Edition of STN Express with Discover! (Version 8.0 for Windows) now available
NEWS	20	JUN 13	RUSSIAPAT: New full-text patent database on STN
NEWS	21	JUN 13	FRFULL enhanced with patent drawing images
NEWS	22	JUN 27	MARPAT displays enhanced with expanded G-group definitions and text labels
NEWS	23	JUL 01	MEDICONF removed from STN
NEWS	24	JUL 07	STN Patent Forums to be held in July 2005
NEWS	25	JUL 13	SCISEARCH reloaded
NEWS	26	JUL 20	Powerful new interactive analysis and visualization software, STN AnaVist, now available
NEWS	27	AUG 11	Derwent World Patents Index(R) web-based training during August
NEWS	28	AUG 11	STN AnaVist workshops to be held in North America

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

```
 NEWS HOURS     STN Operating Hours Plus Help Desk Availability
 NEWS INTER     General Internet Information
 NEWS LOGIN     Welcome Banner and News Items
 NEWS PHONE     Direct Dial and Telecommunication Network Access to STN
 NEWS WWW       CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

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  of commercial gateways or other similar uses is prohibited and may
  result in loss of user privileges and other penalties.

  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:21:44 ON 29 AUG 2005

=>
Uploading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?
Choice (Y/n):
Switching to the Registry File...
Some commands only work in certain files.  For example, the EXPAND
command can only be used to look at the index in a file which has an
index.  Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of
commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

FILE 'REGISTRY' ENTERED AT 16:22:03 ON 29 AUG 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   28 AUG 2005  HIGHEST RN 861926-07-0
DICTIONARY FILE UPDATES:  28 AUG 2005  HIGHEST RN 861926-07-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

*********************************************************************
*                                                                   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
```
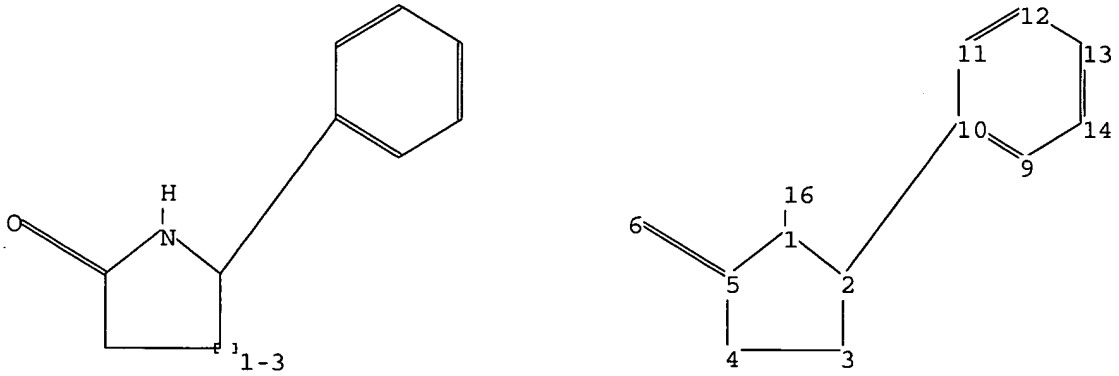

* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
****

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\10768294.str

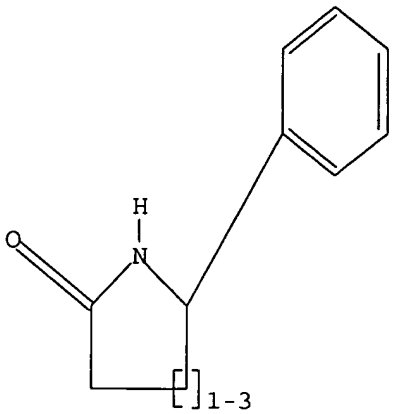


chain nodes :
6 16
ring nodes :
1 2 3 4 5 9 10 11 12 13 14
chain bonds :
1-16 2-10 5-6
ring bonds :
1-2 1-5 2-3 3-4 4-5 9-10 9-14 10-11 11-12 12-13 13-14
exact/norm bonds :
1-2 1-5 5-6
exact bonds :
1-16 2-3 2-10 3-4 4-5
normalized bonds :
9-10 9-14 10-11 11-12 12-13 13-14
isolated ring systems :
containing 1 : 9 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 16:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s l1
SAMPLE SEARCH INITIATED 16:22:23 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   2641 TO ITERATE

 75.7% PROCESSED     2000 ITERATIONS                                33 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        49738 TO    55902
PROJECTED ANSWERS:             475 TO     1267

L2            33 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 16:22:29 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  52162 TO ITERATE

100.0% PROCESSED    52162 ITERATIONS                               962 ANSWERS
SEARCH TIME: 00.00.01

L3           962 SEA SSS FUL L1

=> FIL HCAPLUS
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                             161.33     161.54

FILE 'HCAPLUS' ENTERED AT 16:22:37 ON 29 AUG 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)
```

FILE COVERS 1907 - 29 Aug 2005 VOL 143 ISS 10
FILE LAST UPDATED: 28 Aug 2005 (20050828/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

```
=> s l3
L4          394 L3

=> s l4 and pesticides
         61855 PESTICIDES
L5           8 L4 AND PESTICIDES

=> s l4 and py<=1996
      17466452 PY<=1996
L6          286 L4 AND PY<=1996

=> s l6 and pesticides
         61855 PESTICIDES
L7             0 L6 AND PESTICIDES

=> s l6 and herbicides
         62994 HERBICIDES
L8             1 L6 AND HERBICIDES

=> s l4 and herbicides
         62994 HERBICIDES
L9             3 L4 AND HERBICIDES

=> FIL REGISTRY
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                17.15     178.69
```

FILE 'REGISTRY' ENTERED AT 16:26:37 ON 29 AUG 2005

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 28 AUG 2005 HIGHEST RN 861926-07-0
DICTIONARY FILE UPDATES: 28 AUG 2005 HIGHEST RN 861926-07-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

```
**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information.  *
*                                                                    *
**********************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\10768294a.str
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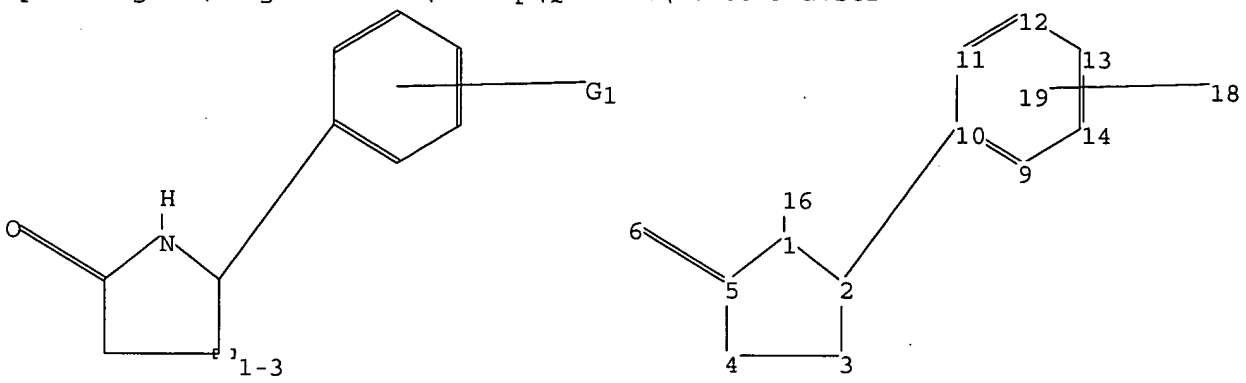


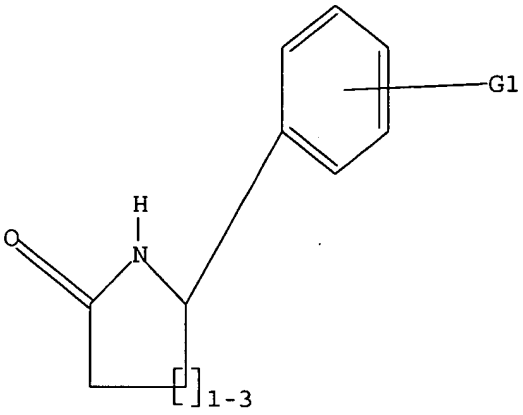

```
chain nodes :
6  16  18
ring nodes :
1  2  3  4  5  9  10  11  12  13  14
chain bonds :
1-16  2-10  5-6
ring bonds :
1-2  1-5  2-3  3-4  4-5  9-10  9-14  10-11  11-12  12-13  13-14
exact/norm bonds :
1-2  1-5  5-6
exact bonds :
1-16  2-3  2-10  3-4  4-5
normalized bonds :
9-10  9-14  10-11  11-12  12-13  13-14
isolated ring systems :
containing 1 : 9 :

G1:X,CN

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:CLASS  9:Atom  10:Atom  11:Atom  12:Atom
13:Atom  14:Atom  16:CLASS  18:CLASS  19:CLASS
```

L10 STRUCTURE UPLOADED

=> d l10
L10 HAS NO ANSWERS
L10 STR



G1 X,CN

Structure attributes must be viewed using STN Express query preparation.

=> s l10
SAMPLE SEARCH INITIATED 16:26:56 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 6714 TO ITERATE

29.8% PROCESSED 2000 ITERATIONS 4 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 129368 TO 139192
PROJECTED ANSWERS: 49 TO 487

L11 4 SEA SSS SAM L10

=> s l10 sss full
FULL SEARCH INITIATED 16:27:05 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 132573 TO ITERATE

100.0% PROCESSED 132573 ITERATIONS 173 ANSWERS
SEARCH TIME: 00.00.03

L12 173 SEA SSS FUL L10

=> FIL HCAPLUS
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION

FULL ESTIMATED COST 161.33 340.02

FILE 'HCAPLUS' ENTERED AT 16:27:13 ON 29 AUG 2005

FILE COVERS 1907 - 29 Aug 2005 VOL 143 ISS 10
FILE LAST UPDATED: 28 Aug 2005 (20050828/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s l12
L13             60 L12

=> s l13 and py<=1996
      17466452 PY<=1996
L14             32 L13 AND PY<=1996

=> s l14 and pestcides
                2 PESTCIDES
L15             0 L14 AND PESTCIDES

=> s l14 and herbicides
            62994 HERBICIDES
L16             1 L14 AND HERBICIDES

=> d his

     (FILE 'HOME' ENTERED AT 16:21:44 ON 29 AUG 2005)

     FILE 'REGISTRY' ENTERED AT 16:22:03 ON 29 AUG 2005
L1                STRUCTURE UPLOADED
L2               33 S L1
L3              962 S L1 SSS FULL

     FILE 'HCAPLUS' ENTERED AT 16:22:37 ON 29 AUG 2005
L4              394 S L3
L5                8 S L4 AND PESTICIDES
L6              286 S L4 AND PY<=1996
L7                0 S L6 AND PESTICIDES
L8                1 S L6 AND HERBICIDES
L9                3 S L4 AND HERBICIDES

     FILE 'REGISTRY' ENTERED AT 16:26:37 ON 29 AUG 2005
L10               STRUCTURE UPLOADED
L11              4 S L10
L12            173 S L10 SSS FULL
```

```
     FILE 'HCAPLUS' ENTERED AT 16:27:13 ON 29 AUG 2005
L13           60 S L12
L14           32 S L13 AND PY<=1996
L15            0 S L14 AND PESTCIDES
L16            1 S L14 AND HERBICIDES

=> d 15 ibib abs hitstr tot

L5   ANSWER 1 OF 8  HCAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:         2002:733857  HCAPLUS
DOCUMENT NUMBER:          137:263039
TITLE:                    Preparation of pyrrolyl(bi)phenyl-2H-tetrazoles as
                          pesticides
INVENTOR(S):              Plant, Andrew; Maurer, Fritz; Marhold, Albrecht;
                          Erdelen, Christoph; Turberg, Andreas; Hansen, Olaf
PATENT ASSIGNEE(S):       Bayer AG, Germany
SOURCE:                   Ger. Offen., 36 pp.
                          CODEN: GWXXBX
DOCUMENT TYPE:            Patent
LANGUAGE:                 German
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.          DATE
     ---------------      ----   --------    --------------------     --------
     DE 10113965           A1    20020926    DE 2001-10113965         20010322
     CA 2441334            AA    20021003    CA 2002-2441334          20020312
     WO 2002076978         A1    20021003    WO 2002-EP2684           20020312
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     EP 1379521            A1    20040114    EP 2002-722207           20020312
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     BR 2002008295         A     20040413    BR 2002-8295             20020312
     CN 1509284            A     20040630    CN 2002-809773           20020312
     JP 2004529131         T2    20040924    JP 2002-576236           20020312
     US 2004152904         A1    20040805    US 2003-472270           20031212
PRIORITY APPLN. INFO.:                        DE 2001-10113965    A    20010322
                                              WO 2002-EP2684      W    20020312
OTHER SOURCE(S):          MARPAT 137:263039
GI
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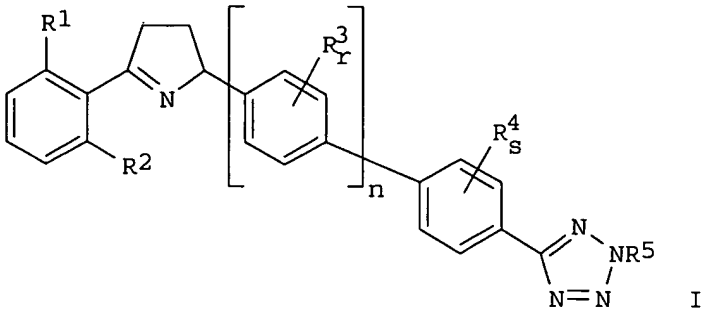
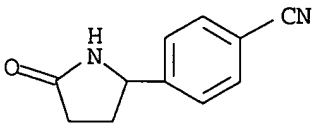


I

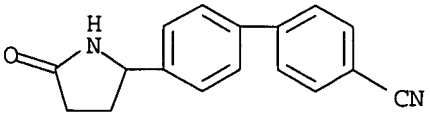
AB Title compds. [I; R1 = halo, Me; R2 = H, halo; R3, R4 = halo, (substituted) alkyl, alkoxy; R5 = H, alkylcarbonyl, (substituted) alkyl, alkylsulfonyl, cycloalkyl; n = 0, 1; r, s = 0-2], were prepared Thus, a mixture of 2-(4-bromophenyl)-5-(2,6-difluorophenyl)-3,4-dihydro-2H-pyrrole, 4,4,4',4',5,5,5',5'-octamethyl-2,2'-bi-1,3,2-dioxaborolan, KOAc, and PdCl2dppf was heated with DMF under Ar-atmospheric followed by cooling and addition of 2-ethyl-5-(4-bromophenyl)-2H-tetrazole (preparation given) to give, after 16 h stirring at 80°, 62% 5-(4'-[5-(2,6-difluorophenyl)-3,4-dihydro-2H-pyrrol-2-yl]-1,1'-biphenyl-4-yl)-2-ethyl-2H-tetrazole. The latter was said to kill of Heliothis virescens-caterpillars on Glycine max with a good efficiency.

IT **339087-31-9P 461440-97-1P 461440-98-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of pyrrolyl(bi)phenyl-2H-tetrazoles as **pesticides**)

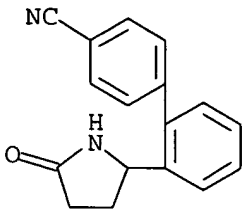
RN 339087-31-9 HCAPLUS
CN Benzonitrile, 4-(5-oxo-2-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 461440-97-1 HCAPLUS
CN [1,1'-Biphenyl]-4-carbonitrile, 4'-(5-oxo-2-pyrrolidinyl)- (9CI) (CA INDEX NAME)



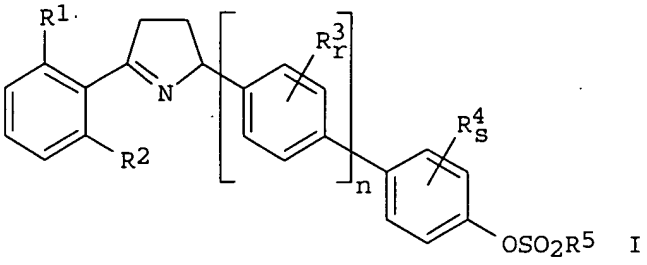
RN 461440-98-2 HCAPLUS
CN [1,1'-Biphenyl]-4-carbonitrile, 2'-(5-oxo-2-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L5 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:240724 HCAPLUS
DOCUMENT NUMBER: 136:263092
TITLE: Preparation of 3,4-dihydropyrroles as **pesticides**
INVENTOR(S): Plant, Andrew; Marhold, Albrecht; Grosser, Rolf; Erdelen, Christoph; Turberg, Andreas; Hansen, Olaf
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 114 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002024644	A1	20020328	WO 2001-EP10430	20010910
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10051395	A1	20020411	DE 2000-10051395	20001017
AU 2001087722	A5	20020402	AU 2001-87722	20010910
EP 1322604	A1	20030702	EP 2001-967323	20010910
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001014096	A	20030819	BR 2001-14096	20010910
JP 2004509864	T2	20040402	JP 2002-529057	20010910
US 2003220386	A1	20031127	US 2003-380728	20030609
PRIORITY APPLN. INFO.:			DE 2000-10047119 A	20000922
			DE 2000-10051395 A	20001017
			WO 2001-EP10430 W	20010910

OTHER SOURCE(S): MARPAT 136:263092
GI



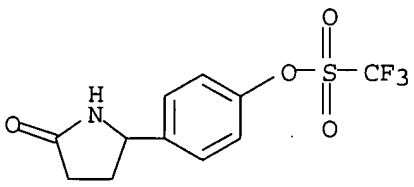
I

AB Title compds. [I; n = 0, 1; r, s = 0-2; R1 = halo, Me; R2 = H, halo; R3, R4 = halo, (halo)alkyl, (halo)alkoxy; R5 = (halo)alkyl, (substituted) Ph, NR6R7; R6 = (halo)alkyl; R7 = H, (halo)alkyl, R6R7 = (alkoxy)alkylene] were prepared Thus, 4-[5-(2,6-difluorophenyl)-3,4-dihydro-2H-pyrrol-2-yl]phenol in PhMe was treated with 45% NaOH and 4-(trifluoromethoxy)benzenesulfonyl chloride, followed by stirring for 12 h at 45°, to give 70% 5-(2,6-difluorophenyl)-2-(4-[4-(trifluoromethoxy)phenyl]sulfonyloxyphenyl)-3,4-dihydro-2H-pyrrole. Several I at 100-200 ppm gave 90-95% kill of Aphis gossypii on Gossypium hirsutum after 6 days.

IT **207989-88-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of dihydropyrroles as **pesticides**)

RN 207989-88-6 HCAPLUS

CN Methanesulfonic acid, trifluoro-, 4-(5-oxo-2-pyrrolidinyl)phenyl ester (9CI) (CA INDEX NAME)

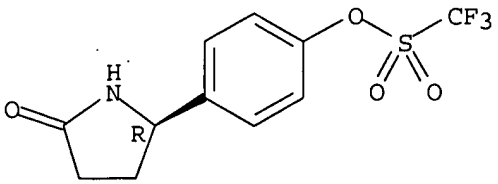


IT **405201-81-2P 405201-84-5P 405201-86-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of dihydropyrroles as **pesticides**)

RN 405201-81-2 HCAPLUS

CN Methanesulfonic acid, trifluoro-, 4-[(2R)-5-oxo-2-pyrrolidinyl]phenyl ester (9CI) (CA INDEX NAME)

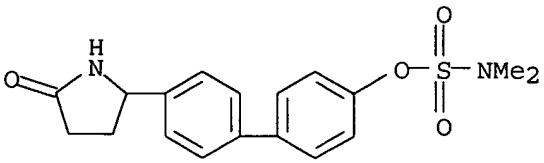
Absolute stereochemistry. Rotation (+).



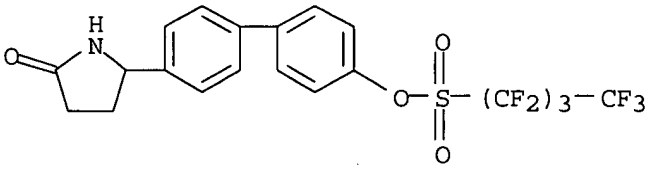
RN 405201-84-5 HCAPLUS

CN Sulfamic acid, dimethyl-, 4'-(5-oxo-2-pyrrolidinyl)[1,1'-biphenyl]-4-yl

ester (9CI) (CA INDEX NAME)



RN 405201-86-7 HCAPLUS
CN 1-Butanesulfonic acid, 1,1,2,2,3,3,4,4,4-nonafluoro-, 4'-(5-oxo-2-pyrrolidinyl)[1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

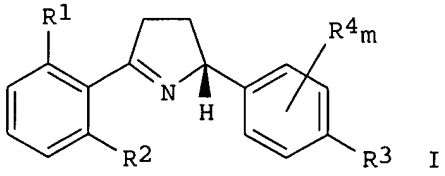
L5 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:240723 HCAPLUS
DOCUMENT NUMBER: 136:279329
TITLE: Preparation of optically active 2,5-diaryl-3,4-dihydropyrroles as **pesticides**
INVENTOR(S): Plant, Andrew; Geller, Thomas; Gallenkamp, Bernd; Grosser, Rolf; Marhold, Albrecht; Erdelen, Christoph; Turberg, Andreas; Hansen, Olaf
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 129 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002024643	A1	20020328	WO 2001-EP10424	20010910
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10047110	A1	20020418	DE 2000-10047110	20000922
AU 2002013897	A5	20020402	AU 2002-13897	20010910
CA 2422958	AA	20030319	CA 2001-2422958	20010910
BR 2001014062	A	20030701	BR 2001-14062	20010910

EP 1322607	A1	20030702	EP 2001-982267		20010910
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR					
JP 2004509166	T2	20040325	JP 2002-529056		20010910
NZ 524813	A	20040924	NZ 2001-524813		20010910
EG 23084	A	20040331	EG 2001-997		20010918
US 2004059129	A1	20040325	US 2003-380433		20030728
PRIORITY APPLN. INFO.:			DE 2000-10047110	A	20000922
			WO 2001-EP10424	W	20010910

OTHER SOURCE(S): MARPAT 136:279329

GI



I

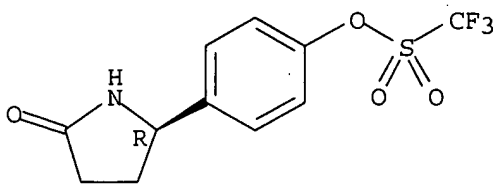
AB Title compds. [I; * = C with (R) configuration; m = 0-4; R1 = halo, Me; R2 = H, halo; R3 = H, halo, OH, (halo)alkyl, (halo)alkenyl, alkynyl, alkoxy, S(O)oR6, etc.; R4 = halo, (halo)alkyl, (halo)alkoxy, S(O)oR6; o = 0-2; R6 = H, (halo)alkyl], were prepared Thus, (+/-)-5-(2,6-difluorophenyl)-2-[4'-(trifluoromethoxy)-1,1'-biphenyl-4-yl]-3,4-dihydro-2H-pyrrole in n-heptanol/isopropanol was fractionally chromatographed with silica gel Chiralcel OD by HPLC to give 87.3% (2R)-5-(2,6-difluorophenyl)-2-[4'-(trifluoromethoxy)-1,1'-biphenyl-4-yl]-3,4-dihydro-2H-pyrrole (ee = 99.5%). The latter at 8 ppm gave 100% kill of Heliothis armigera after 6 days.

IT **405201-81-2P 405522-16-9P 405522-18-1P**
405522-25-0P 405522-26-1P 405522-27-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of optically active diaryldihydropyrroles as **pesticides**)

RN 405201-81-2 HCAPLUS

CN Methanesulfonic acid, trifluoro-, 4-[(2R)-5-oxo-2-pyrrolidinyl]phenyl ester (9CI) (CA INDEX NAME)

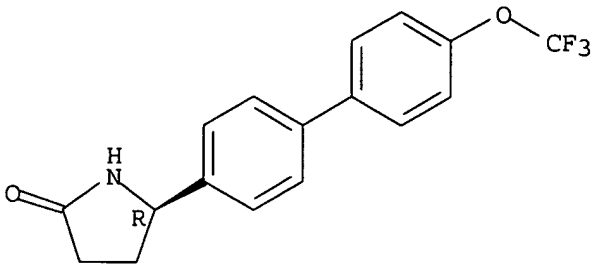
Absolute stereochemistry. Rotation (+).



RN 405522-16-9 HCAPLUS

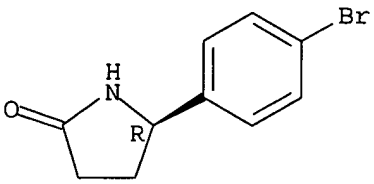
CN 2-Pyrrolidinone, 5-[4'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]-, (5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



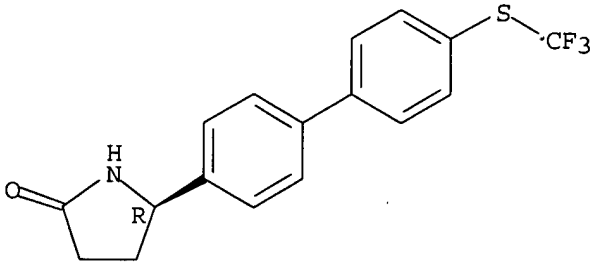
RN 405522-18-1 HCAPLUS
CN 2-Pyrrolidinone, 5-(4-bromophenyl)-, (5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



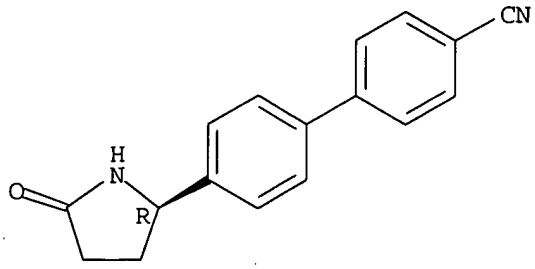
RN 405522-25-0 HCAPLUS
CN 2-Pyrrolidinone, 5-[4'-[(trifluoromethyl)thio][1,1'-biphenyl]-4-yl]-, (5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



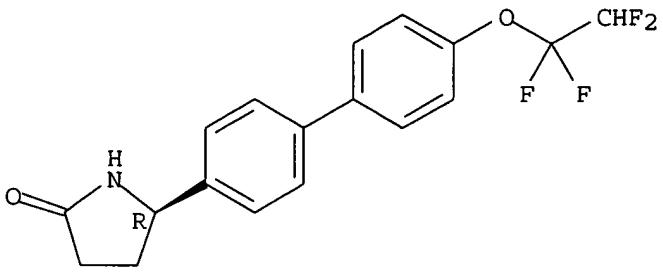
RN 405522-26-1 HCAPLUS
CN [1,1'-Biphenyl]-4-carbonitrile, 4'-[(2R)-5-oxo-2-pyrrolidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 405522-27-2 HCAPLUS
CN 2-Pyrrolidinone, 5-[4'-(1,1,2,2-tetrafluoroethoxy)[1,1'-biphenyl]-4-yl]-, (5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:335381 HCAPLUS
DOCUMENT NUMBER: 132:334360
TITLE: Preparation of phenyl-substituted cyclic enaminones as herbicides and **pesticides.**
INVENTOR(S): Fischer, Reiner; Wischnat, Ralf; Drewes, Mark Wilhelm; Dollinger, Markus; Erdelen, Christoph; Feucht, Dieter; Wetcholowsky, Ingo; Wachendorff-Neumann, Ulrike; Philipp, Ulrich; Ratch, Olga-Tatjana
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 143 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

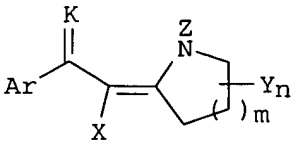
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000027812	A1	20000518	WO 1999-EP8366	19991102
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19851986	A1	20000518	DE 1998-19851986	19981111
CA 2350305	AA	20000518	CA 1999-2350305	19991102
BR 9915260	A	20010807	BR 1999-15260	19991102
EP 1129071	A1	20010905	EP 1999-955944	19991102
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002529450	T2	20020910	JP 2000-580992	19991102
AU 770205	B2	20040219	AU 2000-12688	19991102
US 6455472	B1	20020924	US 2001-831261	20010716
US 2003130125	A1	20030710	US 2002-206426	20020726

PRIORITY APPLN. INFO.:

DE 1998-19851986	A	19981111
DE 1998-19851985	A	19981111
WO 1999-EP8366	W	19991102
US 2001-831261	A3	20010716

OTHER SOURCE(S): MARPAT 132:334360

GI



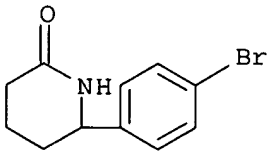
I

AB Title compds. [I; K = O, S; Ar = (substituted) Ph, naphthyl, mono- or bicyclic heteroaryl; X = cyano, CONR1R2, CSNH2; Y = halo, (substituted) alkyl, alkoxy, Ph, phenylalkyl, heteroaryl, CO2R1, CONR1R2, etc.; Z = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, alkoxyalkyl, phenoxyalkyl, phenylthioalkyl, etc.; R1 = H, (substituted) (unsatd.) (heteroatom-interrupted) alkyl, cycloalkyl, Ph, heteroaryl; R2 = H, (substituted) (unsatd.) alkyl, alkoxy, Ph, phenylalkyl, phenylalkoxy; m = 1-3; n = 0-4], were prepared Thus, 2-ethoxypyrroline and 4-chlorobenzoylacetonitrile were heated in PhMe with azeotropic removal of EtOH to give 74% 3-(4-chlorophenyl)-3-oxo-2-pyrrolidin-2-ylidenepropionitrile. Several I were active against Phaedon cochleariae on cabbage leaves.

IT **267880-78-4**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of phenyl-substituted cyclic enaminones as herbicides and **pesticides**)

RN 267880-78-4 HCAPLUS

CN 2-Piperidinone, 6-(4-bromophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:260281 HCAPLUS

DOCUMENT NUMBER: 132:279107

TITLE: Preparation of 5-aryl-2-heteroaryl-3,4-dihydro-2H-pyrroles as **pesticides**.

INVENTOR(S): Plant, Andrew; Alig, Bernd; Graff, Alan; Kraatz, Udo; Kramer, Wolfgang; Erdelen, Christoph; Turberg, Andreas; Mencke, Norbert

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 239 pp.
CODEN: PIXXD2

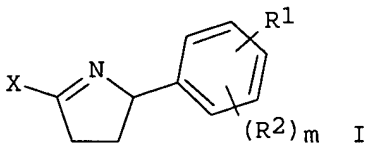
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000021958	A1	20000420	WO 1999-EP7295	19991001
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19847076	A1	20000420	DE 1998-19847076	19981014
AU 9961988	A1	20000501	AU 1999-61988	19991001
AU 761113	B2	20030529		
EP 1121357	A1	20010808	EP 1999-948915	19991001
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9915544	A	20010814	BR 1999-15544	19991001
JP 2002527437	T2	20020827	JP 2000-575864	19991001
US 6599924	B1	20030729	US 2001-807136	20010405
PRIORITY APPLN. INFO.:			DE 1998-19847076 A	19981014
			WO 1999-EP7295 W	19991001

OTHER SOURCE(S): MARPAT 132:279107
GI



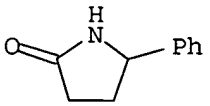
I

AB Title compds. [I; X = (substituted) 5-10 membered mono- or bicyclic heterocyclyl; R1 = halo, XA, BZD, YE; m = 0-4; R2 = H, halo, cyano, NO2, alkyl, alkoxy, haloalkyl, haloalkoxy, alkoxyalkoxy, SR3, SOR3, SO2R3; R3 = alkyl, haloalkyl; X = bond, O, S, CO, CO2, etc.; A = (substituted) Ph, naphthyl, tetrahydronaphthyl, 5-10 membered heterocyclyl; B = (substituted) p-phenylene; Z = O, S; D = H, alkyl, alkenyl, alkynyl, haloalkyl, haloalkenyl, (substituted) cycloalkyl, cycloalkenyl, phenylalkyl, etc.; ZD = (substituted) phenoxyalkyl; Y = bond, O, S, CO, CO2, alkylene, alkenylene, alkynylene, etc.; E = H, alkyl, alkenyl, alkynyl, haloalkyl, haloalkenyl, (substituted) cycloalkenyl, Ph, 5-6 membered heteroaryl], were prepared Thus, furan in THF at -30° was treated with BuLi and then with a solution of N-tert-butoxycarbonyl-γ-(4'-trifluoromethoxybiphen-4-yl)-γ-butyrolactam (preparation given) in THF followed by 2 h stirring at -20° and stirring overnight at room temperature to give 86% BOC-protected aminoketone, which was stirred overnight with CF3CO2H to give 86% 2-(2-furyl)-5-(4'-trifluoromethoxybiphen-4-yl)-3,4-dihydro-2H-pyrrole. Tested I at 0.1% on bean plants gave ≥95% kill of organophosphate-resistant Tetranychus urticae.

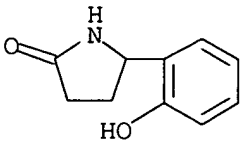
IT **22050-10-8P 25097-93-2P 207989-87-5P**
207989-88-6P 207989-89-7P 207989-90-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)
(preparation of 5-aryl-2-heteroaryl-3,4-dihydro-2H-pyrroles as **pesticides**)

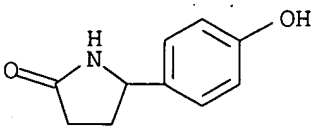
RN 22050-10-8 HCAPLUS
CN 2-Pyrrolidinone, 5-phenyl- (8CI, 9CI) (CA INDEX NAME)



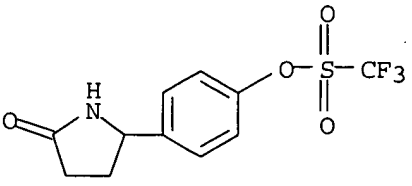
RN 25097-93-2 HCAPLUS
CN 2-Pyrrolidinone, 5-(2-hydroxyphenyl)- (9CI) (CA INDEX NAME)



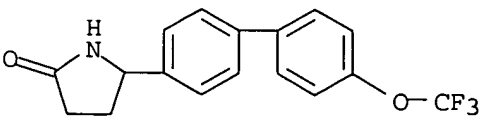
RN 207989-87-5 HCAPLUS
CN 2-Pyrrolidinone, 5-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



RN 207989-88-6 HCAPLUS
CN Methanesulfonic acid, trifluoro-, 4-(5-oxo-2-pyrrolidinyl)phenyl ester (9CI) (CA INDEX NAME)

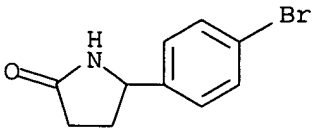


RN 207989-89-7 HCAPLUS
CN 2-Pyrrolidinone, 5-[4'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]- (9CI) (CA INDEX NAME)



RN 207989-90-0 HCAPLUS

CN 2-Pyrrolidinone, 5-(4-bromophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:753208 HCAPLUS
DOCUMENT NUMBER: 131:351232
TITLE: Preparation of 5-aryl-2-(2-chlorophenyl)-3,4-dihydro-2H-pyrroles as **pesticides.**
INVENTOR(S): Plant, Andrew; Graff, Alan; Kraatz, Udo; Erdelen, Christoph; Turberg, Andreas; Mencke, Norbert
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: PCT Int. Appl., 159 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9959968	A1	19991125	WO 1999-EP3063	19990505
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19822247	A1	19991125	DE 1998-19822247	19980518
CA 2332723	AA	19991125	CA 1999-2332723	19990505
AU 9941384	A1	19991206	AU 1999-41384	19990505
AU 747396	B2	20020516		
BR 9910539	A	20010116	BR 1999-10539	19990505
TR 200003389	T2	20010221	TR 2000-200003389	19990505
EP 1080072	A1	20010307	EP 1999-924878	19990505
EP 1080072	B1	20040804		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
JP 2002515483	T2	20020528	JP 2000-549587	19990505
AT 272622	E	20040815	AT 1999-924878	19990505
ES 2224666	T3	20050301	ES 1999-924878	19990505
US 6489490	B1	20021203	US 2000-700289	20001113

PRIORITY APPLN. INFO.: DE 1998-19822247 A 19980518
WO 1999-EP3063 W 19990505

OTHER SOURCE(S): MARPAT 131:351232
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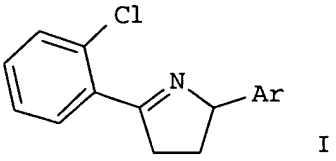
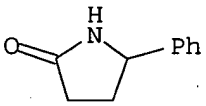


I

AB Title compds. (I; Ar = substituted Ph), were prepared Thus, 2-(2-chlorophenyl)-5-(4-bromophenyl)-3,4-dihydro-2H-pyrrole (preparation given) was stirred with 4-trifluoromethoxyphenylboronic acid, K2CO3, and Pd(PPh3)2Cl2 in dimethoxyethane/H2O to give 11.2% 2-(2-chlorophenyl)-5-(4-trifluoromethoxy-4,4'-biphenyl-1-yl)-3,4-dihydro-2H-pyrrole. The latter at 0.004% on soybeans gave 100% kill of Heliothis armigera.

IT **22050-10-8P 25097-93-2P 207989-87-5P 207989-88-6P 207989-89-7P 207989-90-0P 250671-49-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 5-aryl-2-(2-chlorophenyl)-3,4-dihydro-2H-pyrroles as **pesticides**)

RN 22050-10-8 HCAPLUS
CN 2-Pyrrolidinone, 5-phenyl- (8CI, 9CI) (CA INDEX NAME)



RN 25097-93-2 HCAPLUS
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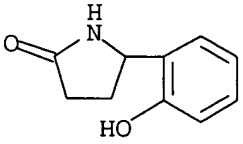

RN 207989-87-5 HCAPLUS
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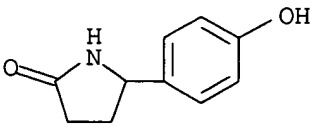
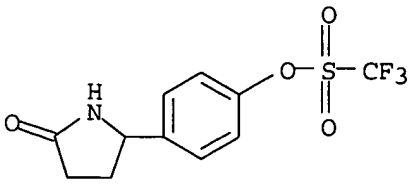


RN 207989-88-6 HCAPLUS
CN Methanesulfonic acid, trifluoro-, 4-(5-oxo-2-pyrrolidinyl)phenyl ester (9CI) (CA INDEX NAME)



RN 207989-89-7 HCAPLUS
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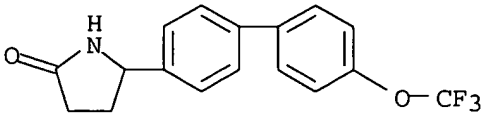
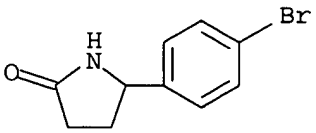
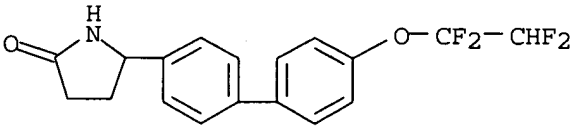


RN 207989-90-0 HCAPLUS
CN 2-Pyrrolidinone, 5-(4-bromophenyl)- (9CI) (CA INDEX NAME)



RN 250671-49-9 HCAPLUS
CN 2-Pyrrolidinone, 5-[4'-(1,1,2,2-tetrafluoroethoxy)[1,1'-biphenyl]-4-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:753207 HCAPLUS
DOCUMENT NUMBER: 131:351231
TITLE: Preparation of 2-(2-methylphenyl)-5-aryl-3,4-dihydro-2H-pyrroles as **pesticides.**
INVENTOR(S): Plant, Andrew; Backhaus, Dirk; Erdelen, Christoph; Turberg, Andreas; Mencke, Norbert
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: PCT Int. Appl., 146 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9959967	A1	19991125	WO 1999-EP3062	19990505
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19822245	A1	19991125	DE 1998-19822245	19980518
CA 2332522	AA	19991125	CA 1999-2332522	19990505
AU 9940369	A1	19991206	AU 1999-40369	19990505
AU 742032	B2	20011213		
BR 9910540	A	20010130	BR 1999-10540	19990505
EP 1077938	A1	20010228	EP 1999-923526	19990505
EP 1077938	B1	20050413		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
TR 200003390	T2	20010321	TR 2000-200003390	19990505
JP 2002515482	T2	20020528	JP 2000-549586	19990505
AT 293099	E	20050415	AT 1999-923526	19990505
US 6632833	B1	20031014	US 2000-700288	20001113
PRIORITY APPLN. INFO.:			DE 1998-19822245 A	19980518
			WO 1999-EP3062 W	19990505

OTHER SOURCE(S): MARPAT 131:351231

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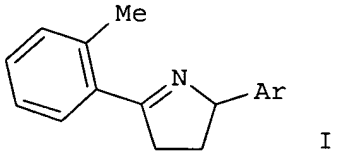


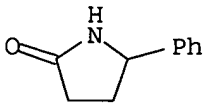
I

AB Title compds. [I; Ar = (substituted) Ph], were prepared Thus, 1-tert-butoxycarbonylamino-1-[4'-trifluoromethoxybiphenyl-4-yl]-3-[O-methylbenzoyl]propane (preparation given) in CH2Cl2 was treated with CF3CO2H to give 93.1% 2-(2-methylphenyl)-5-[4'-trifluoromethoxybiphen-4-yl]-3,4-dihydro-2H-pyrrole. The latter at 0.004% on cabbage leaves gave 100% kill of Plutella xylostella after 6 days.

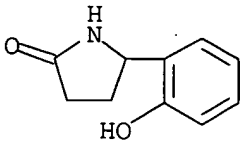
IT **22050-10-8P 25097-93-2P 207989-87-5P 207989-88-6P 207989-89-7P 207989-90-0P 250671-49-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 2-(2-methylphenyl)-5-aryl-3,4-dihydro-2H-pyrroles as **pesticides**)

RN 22050-10-8 HCAPLUS

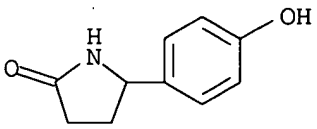
CN 2-Pyrrolidinone, 5-phenyl- (8CI, 9CI) (CA INDEX NAME)



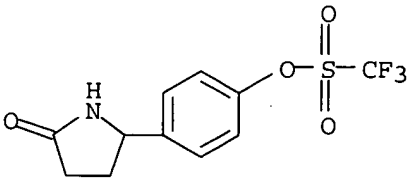
RN 25097-93-2 HCAPLUS
CN 2-Pyrrolidinone, 5-(2-hydroxyphenyl)- (9CI) (CA INDEX NAME)



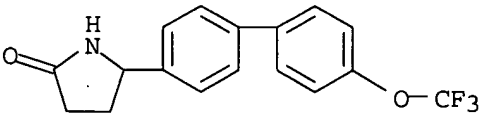
RN 207989-87-5 HCAPLUS
CN 2-Pyrrolidinone, 5-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



RN 207989-88-6 HCAPLUS
CN Methanesulfonic acid, trifluoro-, 4-(5-oxo-2-pyrrolidinyl)phenyl ester (9CI) (CA INDEX NAME)



RN 207989-89-7 HCAPLUS
CN 2-Pyrrolidinone, 5-[4'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]- (9CI) (CA INDEX NAME)



RN 207989-90-0 HCAPLUS
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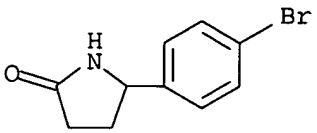

RN 250671-49-9 HCAPLUS
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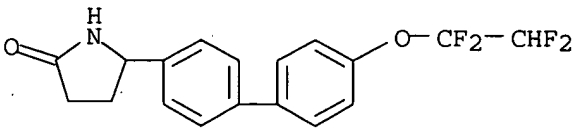
(9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:352816 HCAPLUS
DOCUMENT NUMBER: 129:27884
TITLE: Preparation of aryl-substituted cyclic imines as **pesticides.**
INVENTOR(S): Plant, Andrew; Kleefeld, Gerd; Potter, Thorsten; Erdelen, Christoph; Mencke, Norbert; Turberg, Andreas; Wachendorff-Neumann, Ulrike
PATENT ASSIGNEE(S): Bayer A.-G., Germany; Plant, Andrew; Kleefeld, Gerd; Potter, Thorsten; Erdelen, Christoph; Mencke, Norbert; Turberg, Andreas; Wachendorff-Neumann, Ulrike
SOURCE: PCT Int. Appl., 128 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9822438	A1	19980528	WO 1997-EP6186	19971107
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
DE 19648011	A1	19980528	DE 1996-19648011	19961120
AU 9853197	A1	19980610	AU 1998-53197	19971107
AU 737059	B2	20010809		
EP 942901	A1	19990922	EP 1997-950138	19971107
EP 942901	B1	20030305		
R: BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, PT				
CN 1244860	A	20000216	CN 1997-181458	19971107

BR 9713520	A	20000321	BR 1997-13520	19971107
NZ 335798	A	20001027	NZ 1997-335798	19971107
JP 2001506592	T2	20010522	JP 1998-523151	19971107
EP 1306371	A1	20030502	EP 2003-371	19971107
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PT 942901	T	20030731	PT 1997-950138	19971107
ES 2190803	T3	20030816	ES 1997-950138	19971107
IL 129857	A1	20040219	IL 1997-129857	19971107
TW 572730	B	20040121	TW 1997-86117105	19971117
KR 2000053185	A	20000825	KR 1999-704146	19990510
US 6274613	B1	20010814	US 1999-297964	19990511
US 6399771	B1	20020604	US 2000-659041	20000909
US 2002151571	A1	20021017	US 2001-28648	20011219
US 6770595	B2	20040803		
US 2004186287	A1	20040923	US 2004-768294	20040130

PRIORITY APPLN. INFO.:

DE 1996-19648011	A 19961120
EP 1997-950138	A3 19971107
WO 1997-EP6186	W 19971107
US 1999-297964	A3 19990511
US 2000-659041	A3 20000909
US 2001-28648	A3 20011219

OTHER SOURCE(S): MARPAT 129:27884

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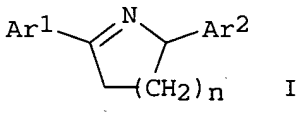


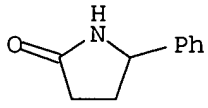
I

AB Title compds. (I; Ar1, Ar2 = (substituted) Ph; n = 1, 2, 3), were prepared Thus, 1-tert-butoxycarbonylamino-3-(2,6-difluorobenzoyl)-1-phenylpropane (preparation given) was treated with CF3CO2H at 0° to room temperature to give 83% 2-(2,6-difluorophenyl)-5-phenyl-3,4-dihydro-2H-pyrrole. The latter at 0.1% gave 90% kill of Myzus persicae on cabbage leaves.

IT **22050-10-8P 25097-93-2P 207989-87-5P**
207989-88-6P 207989-89-7P 207989-90-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of aryl-substituted cyclic imines as **pesticides**)

RN 22050-10-8 HCAPLUS

CN 2-Pyrrolidinone, 5-phenyl- (8CI, 9CI) (CA INDEX NAME)



RN 25097-93-2 HCAPLUS

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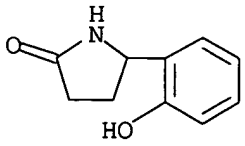

RN 207989-87-5 HCAPLUS
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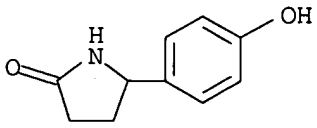
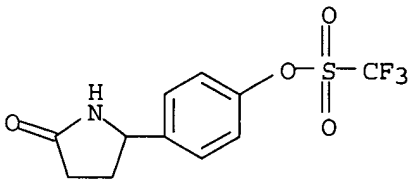
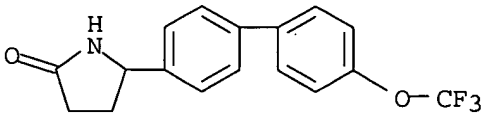


RN 207989-88-6 HCAPLUS
CN Methanesulfonic acid, trifluoro-, 4-(5-oxo-2-pyrrolidinyl)phenyl ester (9CI) (CA INDEX NAME)



RN 207989-89-7 HCAPLUS
CN 2-Pyrrolidinone, 5-[4'-(trifluoromethoxy)[1,1'-biphenyl]-4-yl]- (9CI) (CA INDEX NAME)



RN 207989-90-0 HCAPLUS
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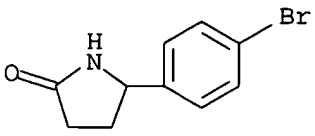

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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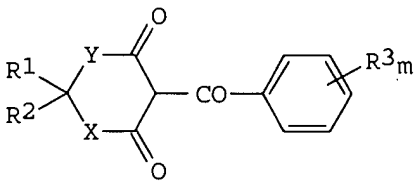
L8 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1989:38898 HCAPLUS
DOCUMENT NUMBER: 110:38898
TITLE: Preparation of benzoylpiperidinediones and other cyclic diones as **herbicides**
INVENTOR(S): Geach, Neil Jonathan; Gilmour, James; Hatton, Leslie Roy; Smith, Philip Henry Gaunt
PATENT ASSIGNEE(S): May and Baker Ltd., UK
SOURCE: Eur. Pat. Appl., 31 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE	
EP 278742	A2	19880817	EP 1988-301103		19880210	<--
EP 278742	A3	19891115				
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE						
FI 8800591	A	19880812	FI 1988-591		19880209	<--
AU 8811454	A1	19880818	AU 1988-11454		19880209	<--
AU 607183	B2	19910228				
ZA 8800911	A	19900131	ZA 1988-911		19880209	<--
DK 8800680	A	19880812	DK 1988-680		19880210	<--
JP 63203644	A2	19880823	JP 1988-29989		19880210	<--
HU 48092	A2	19890529	HU 1988-607		19880210	<--
HU 203941	B	19911128				
CS 273340	B2	19910312	CS 1988-839		19880210	<--
RO 100664	B1	19921120	RO 1988-132128		19880210	<--
BR 8800580	A	19880927	BR 1988-580		19880211	<--
DD 282005	A5	19900829	DD 1988-312844		19880211	<--
US 5114461	A	19920519	US 1989-440208		19891122	<--
AU 9066910	A1	19910627	AU 1990-66910		19901123	<--
PRIORITY APPLN. INFO.:			GB 1987-3068	A	19870211	
			GB 1987-7608	A	19870331	
			US 1988-154031	B1	19880209	

OTHER SOURCE(S): MARPAT 110:38898
GI



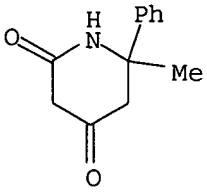
I

AB Title compds. I [X = CH2, O, S, R4N; R4 = H, C1-6 alkyl, C2-7 alkoxycarbonyl; Y = CH2, O, R5R6N; R5 = H, C1-6 alkyl, C2-7 alkoxycarbonyl; R6 = H, C1-6 alkyl; R1 = H; (un)substituted C1-6 alkyl, C3-6 cycloalkyl; R2 = H, R1R2 = C2-6 alkylene, etc.; R3 = halo, HO, H2OC, O2N, cyano, H2N, [(un)substituted C1-6 alkyl]carbamoyl, etc.; m = 0-5], or an agriculturally acceptable salt thereof, were prepared 2,4-(O2N)ClC6H3COCl in CH2Cl2 was added at 5-10° to 6,6-dimethylpiperidine-2,4-dione and Et3N in CH2Cl2, the mixture stirred at ambient temperature for 18 h, Et3N and Me2COHCN were added successively, and the

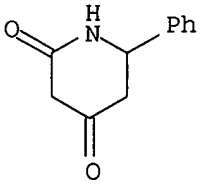
mixture stirred at ambient temperature to give I (R1, R2 = Me; R3m = 2-NO2, 4-Cl; X = NH; Y = CH2) (II). In preemergence test, II at 2000 g/ha gave 100% control of Chenopodium album.

IT **118263-98-2 118264-04-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(benzoylation of)

RN 118263-98-2 HCAPLUS
CN 2,4-Piperidinedione, 6-methyl-6-phenyl- (9CI) (CA INDEX NAME)

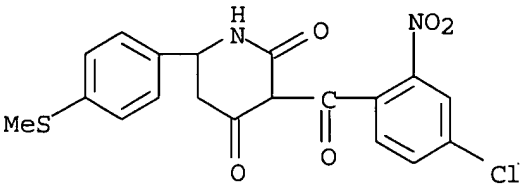


RN 118264-04-3 HCAPLUS
CN 2,4-Piperidinedione, 6-phenyl- (9CI) (CA INDEX NAME)



IT **118263-49-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(oxidation of)

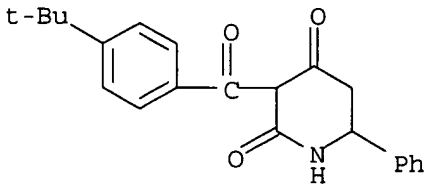
RN 118263-49-3 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)



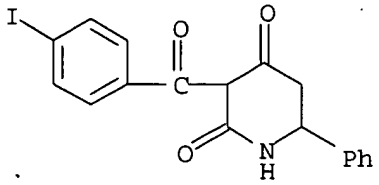
IT **118262-34-3P 118262-35-4P 118262-36-5P**
118262-37-6P 118262-38-7P 118262-40-1P
118262-41-2P 118262-42-3P 118262-43-4P
118262-44-5P 118262-45-6P 118262-46-7P
118262-47-8P 118262-48-9P 118262-49-0P
118262-50-3P 118262-51-4P 118262-52-5P
118262-53-6P 118262-54-7P 118262-55-8P
118262-56-9P 118262-57-0P 118262-58-1P
118262-59-2P 118262-60-5P 118262-62-7P

118262-77-4P 118262-78-5P 118263-48-2P
118263-49-3P 118263-50-6P 118263-51-7P
118263-52-8P 118263-61-9P 118263-62-0P
118263-63-1P 118263-64-2P 118263-65-3P
118263-66-4P 118263-67-5P 118263-68-6P
118263-69-7P 118263-70-0P 118263-71-1P
118264-33-8P 118272-20-1P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as herbicide)

RN 118262-34-3 HCAPLUS
CN 2,4-Piperidinedione, 3-[4-(1,1-dimethylethyl)benzoyl]-6-phenyl- (9CI) (CA INDEX NAME)



RN 118262-35-4 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-iodobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



RN 118262-36-5 HCAPLUS
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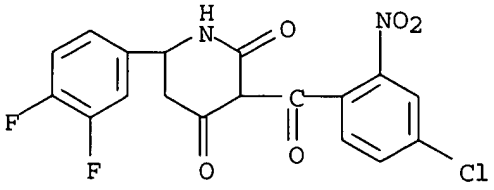

RN 118262-37-6 HCAPLUS
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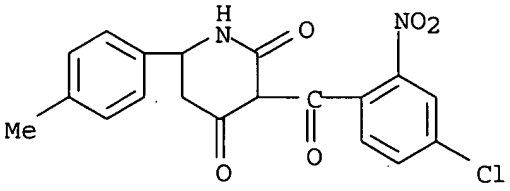
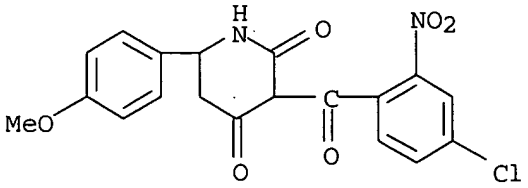
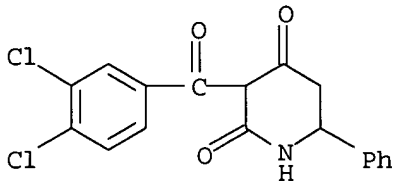


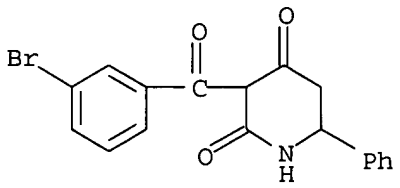
RN 118262-38-7 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-(4-methoxyphenyl)-
(9CI) (CA INDEX NAME)



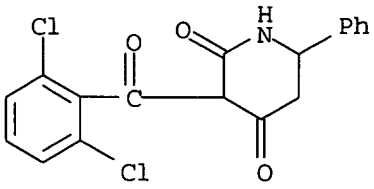
RN 118262-40-1 HCAPLUS
CN 2,4-Piperidinedione, 3-(3,4-dichlorobenzoyl)-6-phenyl- (9CI) (CA INDEX
NAME)



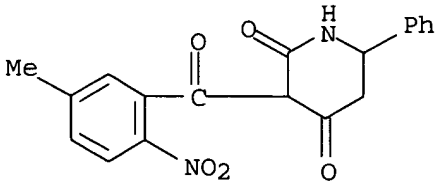
RN 118262-41-2 HCAPLUS
CN 2,4-Piperidinedione, 3-(3-bromobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



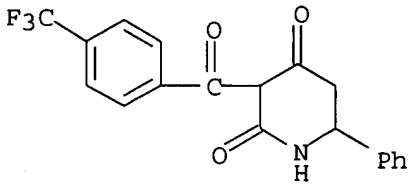
RN 118262-42-3 HCAPLUS
CN 2,4-Piperidinedione, 3-(2,6-dichlorobenzoyl)-6-phenyl- (9CI) (CA INDEX
NAME)



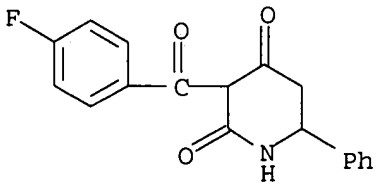
RN 118262-43-4 HCAPLUS
CN 2,4-Piperidinedione, 3-(5-methyl-2-nitrobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



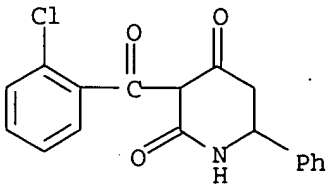
RN 118262-44-5 HCAPLUS
CN 2,4-Piperidinedione, 6-phenyl-3-[4-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)



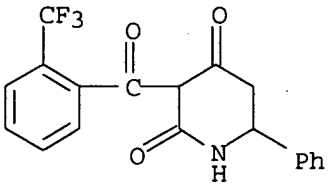
RN 118262-45-6 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-fluorobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



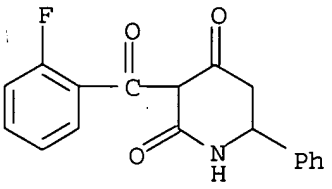
RN 118262-46-7 HCAPLUS
CN 2,4-Piperidinedione, 3-(2-chlorobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



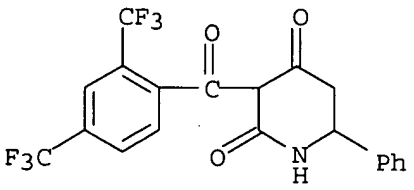
RN 118262-47-8 HCAPLUS
CN 2,4-Piperidinedione, 6-phenyl-3-[2-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)



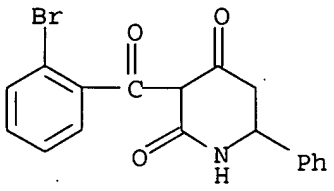
RN 118262-48-9 HCAPLUS
CN 2,4-Piperidinedione, 3-(2-fluorobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



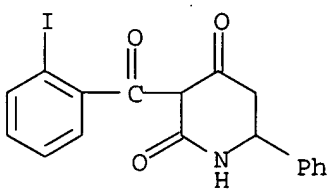
RN 118262-49-0 HCAPLUS
CN 2,4-Piperidinedione, 3-[2,4-bis(trifluoromethyl)benzoyl]-6-phenyl- (9CI) (CA INDEX NAME)



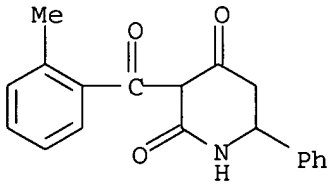
RN 118262-50-3 HCAPLUS
CN 2,4-Piperidinedione, 3-(2-bromobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



RN 118262-51-4 HCAPLUS
CN 2,4-Piperidinedione, 3-(2-iodobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



RN 118262-52-5 HCAPLUS
CN 2,4-Piperidinedione, 3-(2-methylbenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



RN 118262-53-6 HCAPLUS
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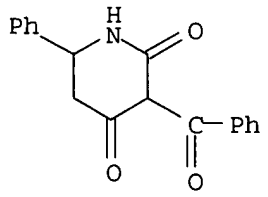
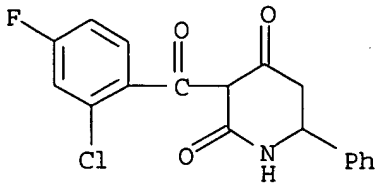
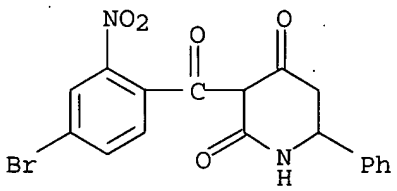


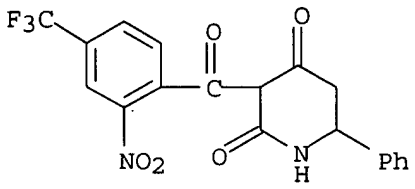
RN 118262-54-7 HCAPLUS
CN 2,4-Piperidinedione, 3-(2-chloro-4-fluorobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



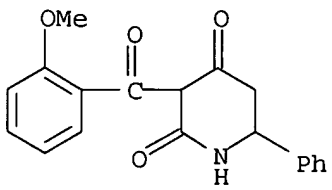
RN 118262-55-8 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-bromo-2-nitrobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



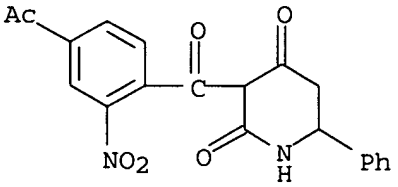
RN 118262-56-9 HCAPLUS
CN 2,4-Piperidinedione, 3-[2-nitro-4-(trifluoromethyl)benzoyl]-6-phenyl- (9CI) (CA INDEX NAME)



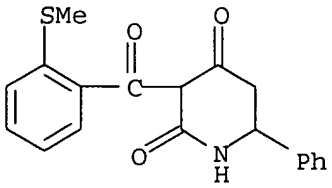
RN 118262-57-0 HCAPLUS
CN 2,4-Piperidinedione, 3-(2-methoxybenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



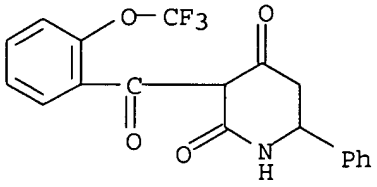
RN 118262-58-1 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-acetyl-2-nitrobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



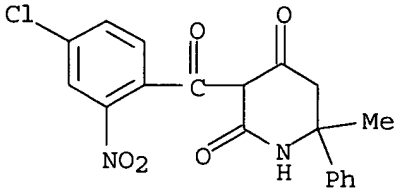
RN 118262-59-2 HCAPLUS
CN 2,4-Piperidinedione, 3-[2-(methylthio)benzoyl]-6-phenyl- (9CI) (CA INDEX NAME)



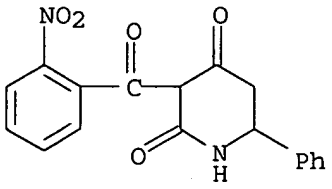
RN 118262-60-5 HCAPLUS
CN 2,4-Piperidinedione, 6-phenyl-3-[2-(trifluoromethoxy)benzoyl]- (9CI) (CA INDEX NAME)



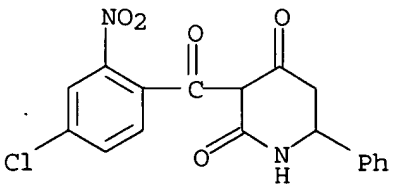
RN 118262-62-7 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-methyl-6-phenyl- (9CI) (CA INDEX NAME)



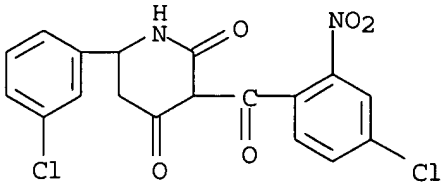
RN 118262-77-4 HCAPLUS
CN 2,4-Piperidinedione, 3-(2-nitrobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



RN 118262-78-5 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



RN 118263-48-2 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-(3-chlorophenyl)- (9CI) (CA INDEX NAME)



RN 118263-49-3 HCAPLUS
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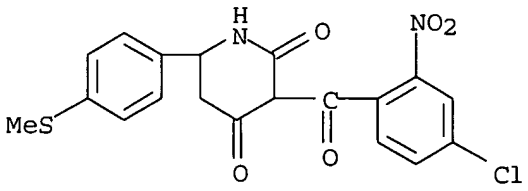

RN 118263-50-6 HCAPLUS
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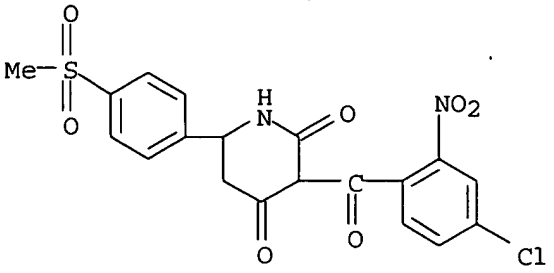

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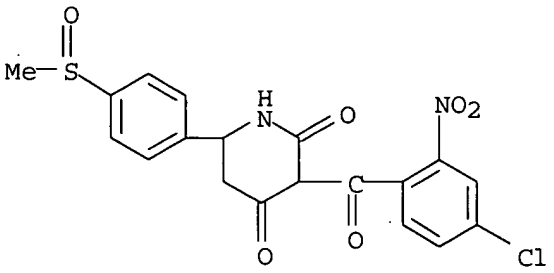

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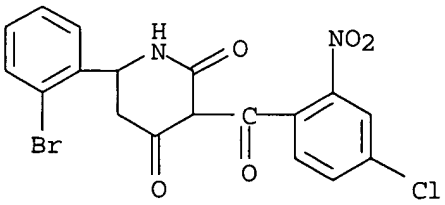
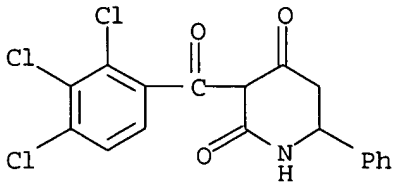
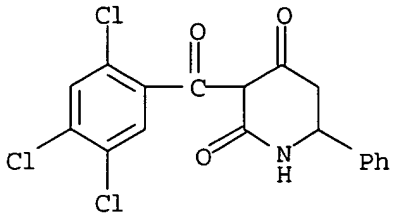


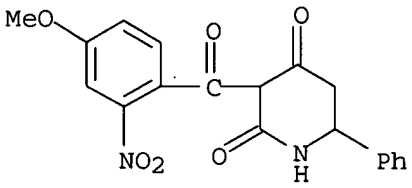
RN 118263-61-9 HCAPLUS
CN 2,4-Piperidinedione, 6-phenyl-3-(2,3,4-trichlorobenzoyl)- (9CI) (CA INDEX NAME)



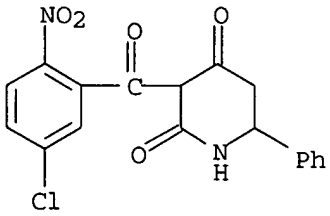
RN 118263-62-0 HCAPLUS
CN 2,4-Piperidinedione, 6-phenyl-3-(2,4,5-trichlorobenzoyl)- (9CI) (CA INDEX NAME)



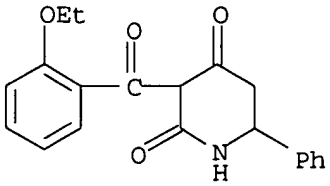
RN 118263-63-1 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-methoxy-2-nitrobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



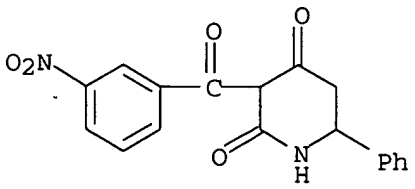
RN 118263-64-2 HCAPLUS
CN 2,4-Piperidinedione, 3-(5-chloro-2-nitrobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



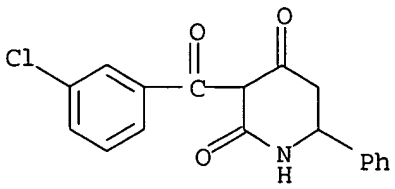
RN 118263-65-3 HCAPLUS
CN 2,4-Piperidinedione, 3-(2-ethoxybenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



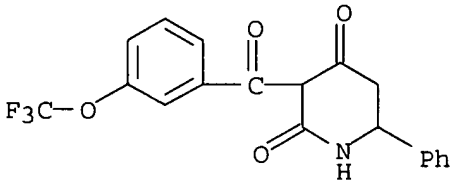
RN 118263-66-4 HCAPLUS
CN 2,4-Piperidinedione, 3-(3-nitrobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



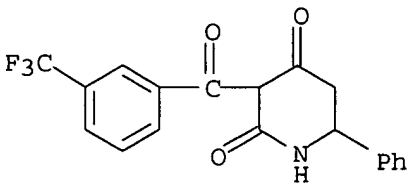
RN 118263-67-5 HCAPLUS
CN 2,4-Piperidinedione, 3-(3-chlorobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



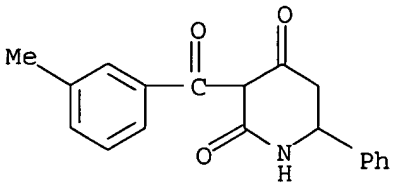
RN 118263-68-6 HCAPLUS
CN 2,4-Piperidinedione, 6-phenyl-3-[3-(trifluoromethoxy)benzoyl]- (9CI) (CA INDEX NAME)



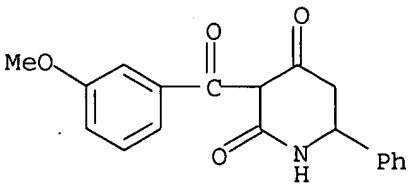
RN 118263-69-7 HCAPLUS
CN 2,4-Piperidinedione, 6-phenyl-3-[3-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)



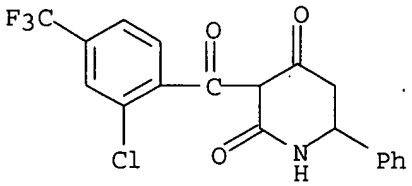
RN 118263-70-0 HCAPLUS
CN 2,4-Piperidinedione, 3-(3-methylbenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



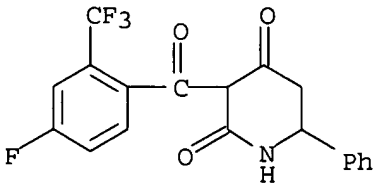
RN 118263-71-1 HCAPLUS
CN 2,4-Piperidinedione, 3-(3-methoxybenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



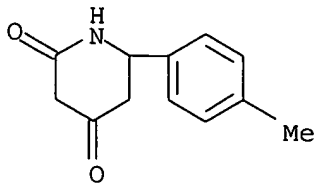
RN 118264-33-8 HCAPLUS
CN 2,4-Piperidinedione, 3-[2-chloro-4-(trifluoromethyl)benzoyl]-6-phenyl-
(9CI) (CA INDEX NAME)



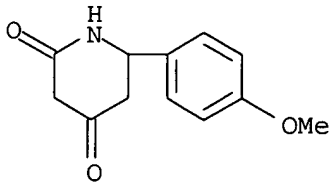
RN 118272-20-1 HCAPLUS
CN 2,4-Piperidinedione, 3-[4-fluoro-2-(trifluoromethyl)benzoyl]-6-phenyl-
(9CI) (CA INDEX NAME)



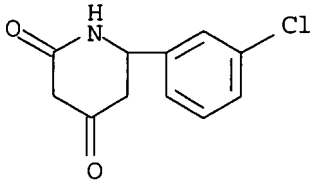
IT **118263-72-2P 118263-73-3P 118263-74-4P**
118263-75-5P 118263-76-6P 118263-93-7P
118263-98-2P 118264-04-3P 118281-17-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, for benzoylpiperidinedione **herbicides**)
RN 118263-72-2 HCAPLUS
CN 2,4-Piperidinedione, 6-(4-methylphenyl)- (9CI) (CA INDEX NAME)



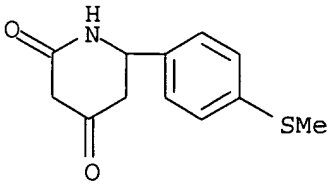
RN 118263-73-3 HCAPLUS
CN 2,4-Piperidinedione, 6-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



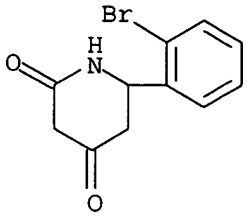
RN 118263-74-4 HCAPLUS
CN 2,4-Piperidinedione, 6-(3-chlorophenyl)- (9CI) (CA INDEX NAME)



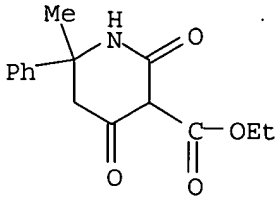
RN 118263-75-5 HCAPLUS
CN 2,4-Piperidinedione, 6-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)



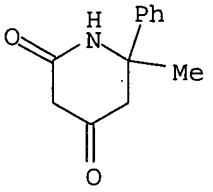
RN 118263-76-6 HCAPLUS
CN 2,4-Piperidinedione, 6-(2-bromophenyl)- (9CI) (CA INDEX NAME)



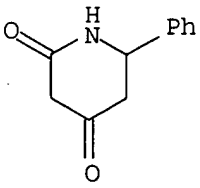
RN 118263-93-7 HCAPLUS
CN 3-Piperidinecarboxylic acid, 6-methyl-2,4-dioxo-6-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



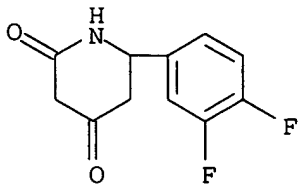
RN 118263-98-2 HCAPLUS
CN 2,4-Piperidinedione, 6-methyl-6-phenyl- (9CI) (CA INDEX NAME)



RN 118264-04-3 HCAPLUS
CN 2,4-Piperidinedione, 6-phenyl- (9CI) (CA INDEX NAME)



RN 118281-17-7 HCAPLUS
CN 2,4-Piperidinedione, 6-(3,4-difluorophenyl)- (9CI) (CA INDEX NAME)



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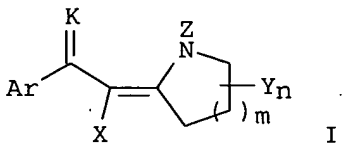
L9 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:335381 HCAPLUS
DOCUMENT NUMBER: 132:334360
TITLE: Preparation of phenyl-substituted cyclic enaminones as **herbicides** and pesticides.
INVENTOR(S): Fischer, Reiner; Wischnat, Ralf; Drewes, Mark Wilhelm; Dollinger, Markus; Erdelen, Christoph; Feucht, Dieter; Wetcholowsky, Ingo; Wachendorff-Neumann, Ulrike; Philipp, Ulrich; Rauch, Olga-Tatjana
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 143 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000027812	A1	20000518	WO 1999-EP8366	19991102
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19851986	A1	20000518	DE 1998-19851986	19981111
CA 2350305	AA	20000518	CA 1999-2350305	19991102
BR 9915260	A	20010807	BR 1999-15260	19991102
EP 1129071	A1	20010905	EP 1999-955944	19991102
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002529450	T2	20020910	JP 2000-580992	19991102
AU 770205	B2	20040219	AU 2000-12688	19991102
US 6455472	B1	20020924	US 2001-831261	20010716
US 2003130125	A1	20030710	US 2002-206426	20020726

PRIORITY APPLN. INFO.:	DE 1998-19851986	A	19981111
	DE 1998-19851985	A	19981111
	WO 1999-EP8366	W	19991102
	US 2001-831261	A3	20010716

OTHER SOURCE(S): MARPAT 132:334360
GI



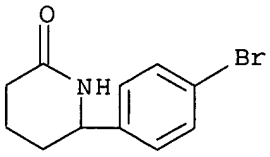
I

AB Title compds. [I; K = O, S; Ar = (substituted) Ph, naphthyl, mono- or bicyclic heteroaryl; X = cyano, CONR1R2, CSNH2; Y = halo, (substituted) alkyl, alkoxy, Ph, phenylalkyl, heteroaryl, CO2R1, CONR1R2, etc.; Z = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, alkoxyalkyl, phenoxyalkyl, phenylthioalkyl, etc.; R1 = H, (substituted) (unsatd.) (heteroatom-interrupted) alkyl, cycloalkyl, Ph, heteroaryl; R2 = H, (substituted) (unsatd.) alkyl, alkoxy, Ph, phenylalkyl, phenylalkoxy; m = 1-3; n = 0-4], were prepared Thus, 2-ethoxypyrroline and 4-chlorobenzoylacetonitrile were heated in PhMe with azeotropic removal of EtOH to give 74% 3-(4-chlorophenyl)-3-oxo-2-pyrrolidin-2-ylidenepropionitrile. Several I were active against Phaedon cochleariae on cabbage leaves.

IT **267880-78-4**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of phenyl-substituted cyclic enaminones as **herbicides** and pesticides)

RN 267880-78-4 HCAPLUS

CN 2-Piperidinone, 6-(4-bromophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:149991 HCAPLUS

DOCUMENT NUMBER: 132:275433

TITLE: Monoclonal-Based ELISA for the Identification of Herbicidal Cyclohexanedione Analogues That Inhibit Graminaceous Acetyl Coenzyme-A Carboxylase

AUTHOR(S): Webb, Steve R.; Hall, J. Christopher

CORPORATE SOURCE: Dow AgroSciences Canada Inc., Saskatoon, SK, S7N 3R2, Can.

SOURCE: Journal of Agricultural and Food Chemistry (2000), 48(4), 1210-1218
CODEN: JAFCAU; ISSN: 0021-8561

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

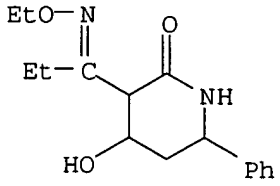
LANGUAGE: English

AB Cyclohexanediones are one of 4 known structural classes of **herbicides** that inhibit graminaceous acetyl coenzyme-A carboxylase

(ACCase; EC 6.4.1.2). Five monoclonal antibodies were raised against cyclohexanediones conjugated to bovine serum albumin. Cross-reactivity studies using a homologous competitive indirect ELISA (ciELISA) against 24 cyclohexanedione analogs revealed that two monoclonal antibodies (mAb A and mAb B) could segregate the analogs into active and inactive ACCase inhibitors on the basis of the analog concentration required to inhibit 50% of antibody binding to the coating conjugate (IC50). Both mAb A and mAb B were also found to cross-react with various members of the indolizidinedione structural class of ACCase inhibitors in ciELISA, suggesting that both cyclohexanediones and indolizidinediones possess features recognized by monoclonal antibodies important for the inhibition of ACCase activity. Pharmacophore-specific antibodies may be potentially valuable screening tools for the identification of new lead chemistries in a pesticide discovery program.

IT **264131-31-9**
RL: AGR (Agricultural use); PRP (Properties); BIOL (Biological study); USES (Uses)
(ELISA-identified potential herbicidal graminaceous acetyl coenzyme-A carboxylase inhibiting activity of cyclohexanedione analogs)

RN 264131-31-9 HCAPLUS
CN 2-Piperidinone, 3-[1-(ethoxyimino)propyl]-4-hydroxy-6-phenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1989:38898 HCAPLUS
DOCUMENT NUMBER: 110:38898
TITLE: Preparation of benzoylpiperidinediones and other cyclic diones as **herbicides**
INVENTOR(S): Geach, Neil Jonathan; Gilmour, James; Hatton, Leslie Roy; Smith, Philip Henry Gaunt
PATENT ASSIGNEE(S): May and Baker Ltd., UK
SOURCE: Eur. Pat. Appl., 31 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 278742	A2	19880817	EP 1988-301103	19880210
EP 278742	A3	19891115		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
FI 8800591	A	19880812	FI 1988-591	19880209
AU 8811454	A1	19880818	AU 1988-11454	19880209
AU 607183	B2	19910228		
ZA 8800911	A	19900131	ZA 1988-911	19880209

DK 8800680	A	19880812	DK 1988-680		19880210
JP 63203644	A2	19880823	JP 1988-29989		19880210
HU 48092	A2	19890529	HU 1988-607		19880210
HU 203941	B	19911128			
CS 273340	B2	19910312	CS 1988-839		19880210
RO 100664	B1	19921120	RO 1988-132128		19880210
BR 8800580	A	19880927	BR 1988-580		19880211
DD 282005	A5	19900829	DD 1988-312844		19880211
US 5114461	A	19920519	US 1989-440208		19891122
AU 9066910	A1	19910627	AU 1990-66910		19901123
PRIORITY APPLN. INFO.:			GB 1987-3068	A	19870211
			GB 1987-7608	A	19870331
			US 1988-154031	B1	19880209

OTHER SOURCE(S): MARPAT 110:38898
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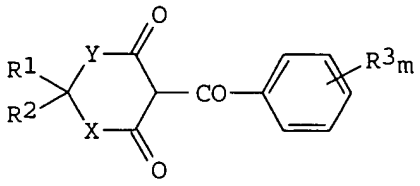
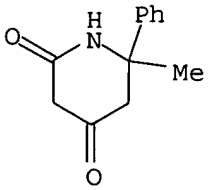


I

AB Title compds. I [X = CH2, O, S, R4N; R4 = H, C1-6 alkyl, C2-7 alkoxycarbonyl; Y = CH2, O, R5R6N; R5 = H, C1-6 alkyl, C2-7 alkoxycarbonyl; R6 = H, C1-6 alkyl; R1 = H; (un)substituted C1-6 alkyl, C3-6 cycloalkyl; R2 = H, R1R2 = C2-6 alkylene, etc.; R3 = halo, HO, H2OC, O2N, cyano, H2N, [(un)substituted C1-6 alkyl]carbamoyl, etc.; m = 0-5], or an agriculturally acceptable salt thereof, were prepared 2,4-(O2N)ClC6H3COCl in CH2Cl2 was added at 5-10° to 6,6-dimethylpiperidine-2,4-dione and Et3N in CH2Cl2, the mixture stirred at ambient temperature for 18 h, Et3N and Me2COHCN were added successively, and the mixture stirred at ambient temperature to give I (R1, R2 = Me; R3m = 2-NO2, 4-Cl; X = NH; Y = CH2) (II). In preemergence test, II at 2000 g/ha gave 100% control of Chenopodium album.

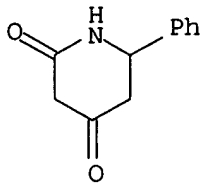
IT **118263-98-2 118264-04-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(benzoylation of)

RN 118263-98-2 HCAPLUS
CN 2,4-Piperidinedione, 6-methyl-6-phenyl- (9CI) (CA INDEX NAME)

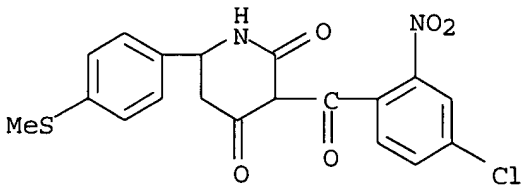


RN 118264-04-3 HCAPLUS

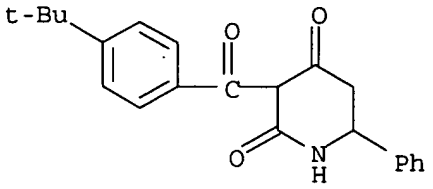
CN 2,4-Piperidinedione, 6-phenyl- (9CI) (CA INDEX NAME)



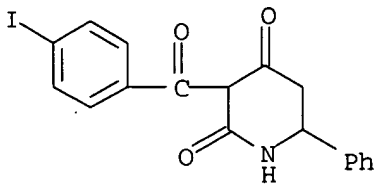
IT **118263-49-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(oxidation of)
RN 118263-49-3 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-[4-(methylthio)phenyl]-
(9CI) (CA INDEX NAME)



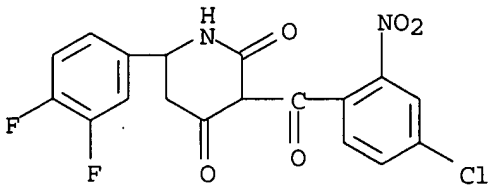
IT **118262-34-3P 118262-35-4P 118262-36-5P**
118262-37-6P 118262-38-7P 118262-40-1P
118262-41-2P 118262-42-3P 118262-43-4P
118262-44-5P 118262-45-6P 118262-46-7P
118262-47-8P 118262-48-9P 118262-49-0P
118262-50-3P 118262-51-4P 118262-52-5P
118262-53-6P 118262-54-7P 118262-55-8P
118262-56-9P 118262-57-0P 118262-58-1P
118262-59-2P 118262-60-5P 118262-62-7P
118262-77-4P 118262-78-5P 118263-48-2P
118263-49-3P 118263-50-6P 118263-51-7P
118263-52-8P 118263-61-9P 118263-62-0P
118263-63-1P 118263-64-2P 118263-65-3P
118263-66-4P 118263-67-5P 118263-68-6P
118263-69-7P 118263-70-0P 118263-71-1P
118264-33-8P 118272-20-1P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except
adverse); BSU (Biological study, unclassified); SPN (Synthetic
preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as herbicide)
RN 118262-34-3 HCAPLUS
CN 2,4-Piperidinedione, 3-[4-(1,1-dimethylethyl)benzoyl]-6-phenyl- (9CI) (CA
INDEX NAME)



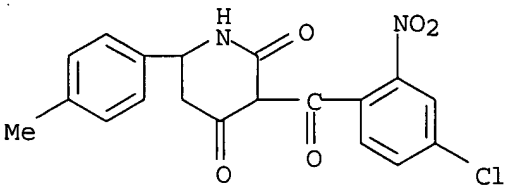
RN 118262-35-4 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-iodobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



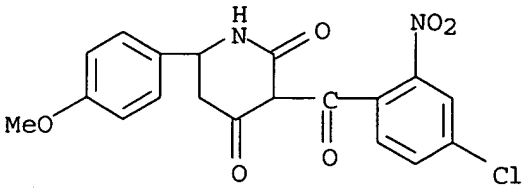
RN 118262-36-5 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-(3,4-difluorophenyl)-
(9CI) (CA INDEX NAME)



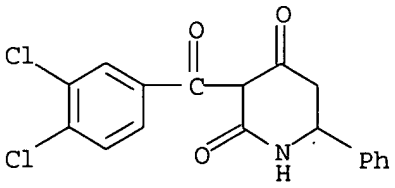
RN 118262-37-6 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-(4-methylphenyl)- (9CI)
(CA INDEX NAME)



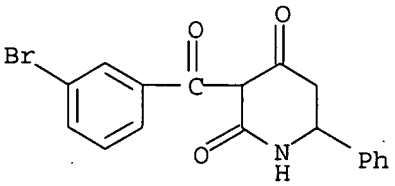
RN 118262-38-7 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-(4-methoxyphenyl)-
(9CI) (CA INDEX NAME)



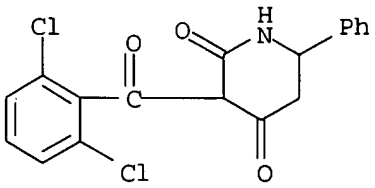
RN 118262-40-1 HCAPLUS
CN 2,4-Piperidinedione, 3-(3,4-dichlorobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



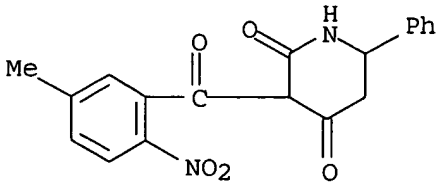
RN 118262-41-2 HCAPLUS
CN 2,4-Piperidinedione, 3-(3-bromobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



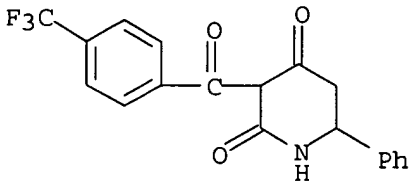
RN 118262-42-3 HCAPLUS
CN 2,4-Piperidinedione, 3-(2,6-dichlorobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



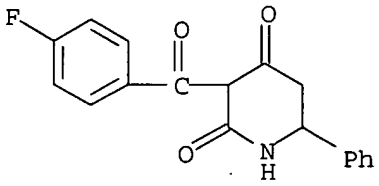
RN 118262-43-4 HCAPLUS
CN 2,4-Piperidinedione, 3-(5-methyl-2-nitrobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



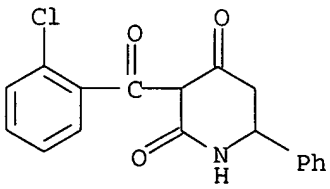
RN 118262-44-5 HCAPLUS
CN 2,4-Piperidinedione, 6-phenyl-3-[4-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)



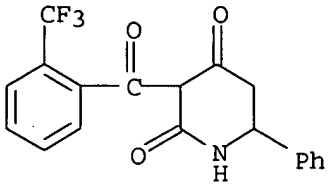
RN 118262-45-6 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-fluorobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



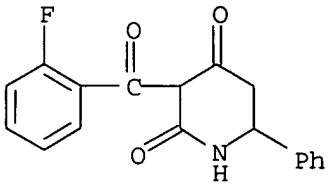
RN 118262-46-7 HCAPLUS
CN 2,4-Piperidinedione, 3-(2-chlorobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



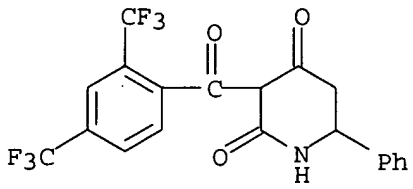
RN 118262-47-8 HCAPLUS
CN 2,4-Piperidinedione, 6-phenyl-3-[2-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)



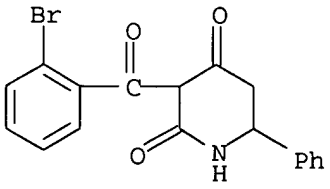
RN 118262-48-9 HCAPLUS
CN 2,4-Piperidinedione, 3-(2-fluorobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



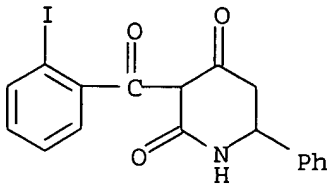
RN 118262-49-0 HCAPLUS
CN 2,4-Piperidinedione, 3-[2,4-bis(trifluoromethyl)benzoyl]-6-phenyl- (9CI) (CA INDEX NAME)



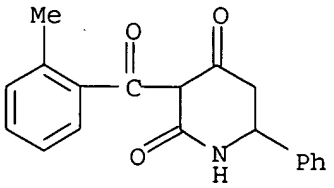
RN 118262-50-3 HCAPLUS
CN 2,4-Piperidinedione, 3-(2-bromobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



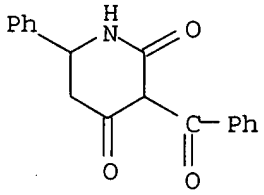
RN 118262-51-4 HCAPLUS
CN 2,4-Piperidinedione, 3-(2-iodobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



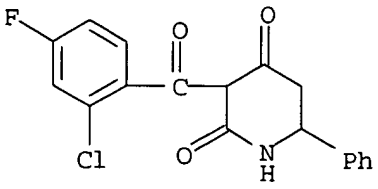
RN 118262-52-5 HCAPLUS
CN 2,4-Piperidinedione, 3-(2-methylbenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



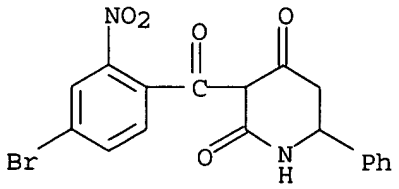
RN 118262-53-6 HCAPLUS
CN 2,4-Piperidinedione, 3-benzoyl-6-phenyl- (9CI) (CA INDEX NAME)



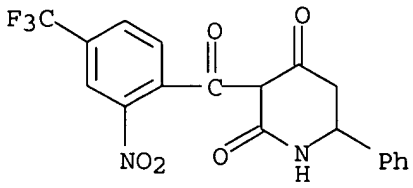
RN 118262-54-7 HCAPLUS
CN 2,4-Piperidinedione, 3-(2-chloro-4-fluorobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



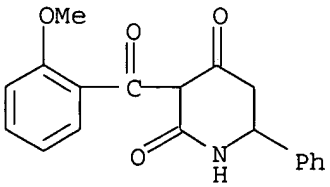
RN 118262-55-8 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-bromo-2-nitrobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



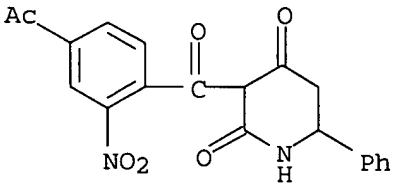
RN 118262-56-9 HCAPLUS
CN 2,4-Piperidinedione, 3-[2-nitro-4-(trifluoromethyl)benzoyl]-6-phenyl- (9CI) (CA INDEX NAME)



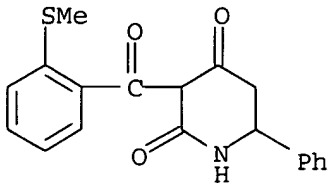
RN 118262-57-0 HCAPLUS
CN 2,4-Piperidinedione, 3-(2-methoxybenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



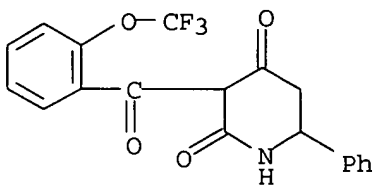
RN 118262-58-1 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-acetyl-2-nitrobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



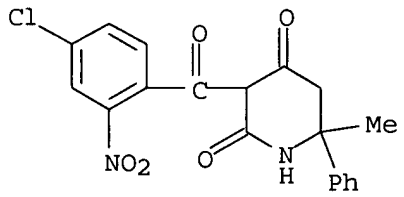
RN 118262-59-2 HCAPLUS
CN 2,4-Piperidinedione, 3-[2-(methylthio)benzoyl]-6-phenyl- (9CI) (CA INDEX NAME)



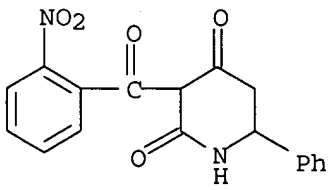
RN 118262-60-5 HCAPLUS
CN 2,4-Piperidinedione, 6-phenyl-3-[2-(trifluoromethoxy)benzoyl]- (9CI) (CA INDEX NAME)



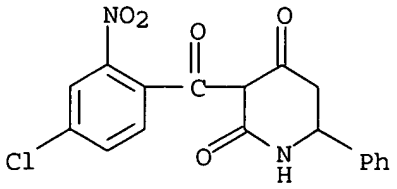
RN 118262-62-7 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-methyl-6-phenyl- (9CI) (CA INDEX NAME)



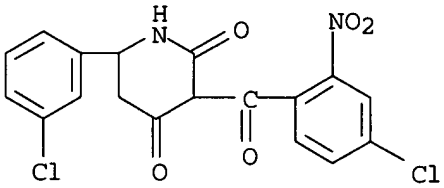
RN 118262-77-4 HCAPLUS
CN 2,4-Piperidinedione, 3-(2-nitrobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



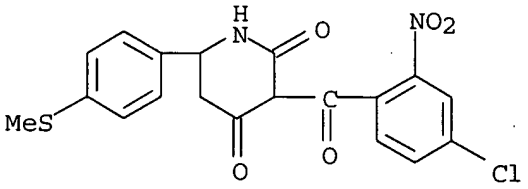
RN 118262-78-5 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



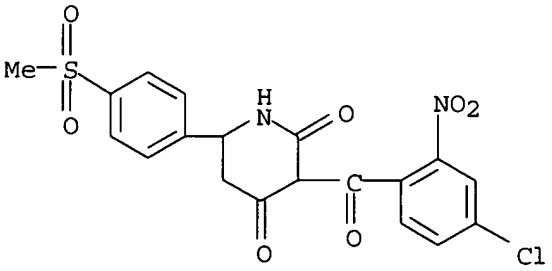
RN 118263-48-2 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-(3-chlorophenyl)- (9CI) (CA INDEX NAME)



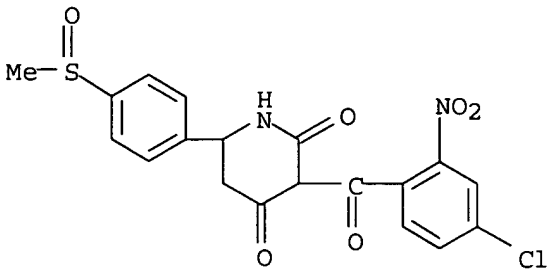
RN 118263-49-3 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)



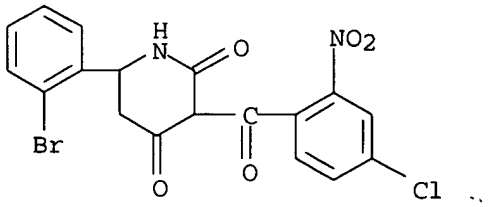
RN 118263-50-6 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-[4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



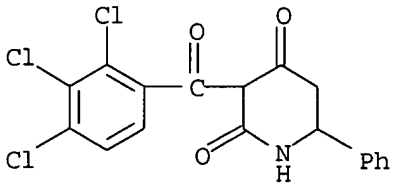
RN 118263-51-7 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-[4-(methylsulfinyl)phenyl]- (9CI) (CA INDEX NAME)



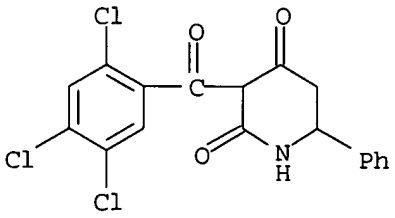
RN 118263-52-8 HCAPLUS
CN 2,4-Piperidinedione, 6-(2-bromophenyl)-3-(4-chloro-2-nitrobenzoyl)- (9CI) (CA INDEX NAME)



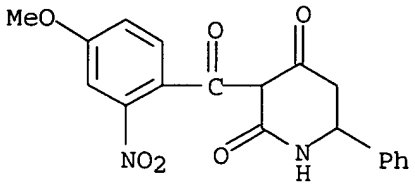
RN 118263-61-9 HCAPLUS
CN 2,4-Piperidinedione, 6-phenyl-3-(2,3,4-trichlorobenzoyl)- (9CI) (CA INDEX NAME)



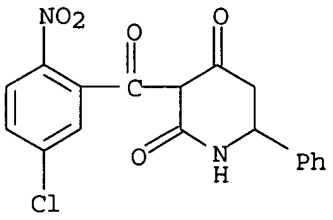
RN 118263-62-0 HCAPLUS
CN 2,4-Piperidinedione, 6-phenyl-3-(2,4,5-trichlorobenzoyl)- (9CI) (CA INDEX NAME)



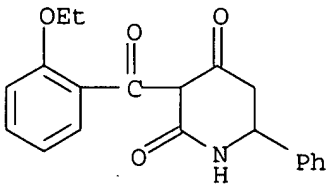
RN 118263-63-1 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-methoxy-2-nitrobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



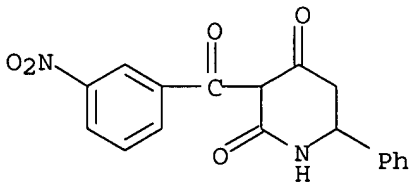
RN 118263-64-2 HCAPLUS
CN 2,4-Piperidinedione, 3-(5-chloro-2-nitrobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



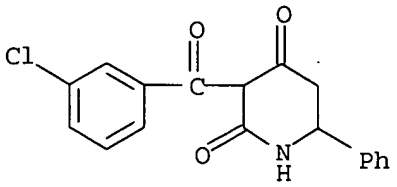
RN 118263-65-3 HCAPLUS
CN 2,4-Piperidinedione, 3-(2-ethoxybenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



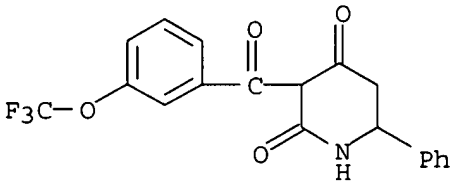
RN 118263-66-4 HCAPLUS
CN 2,4-Piperidinedione, 3-(3-nitrobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



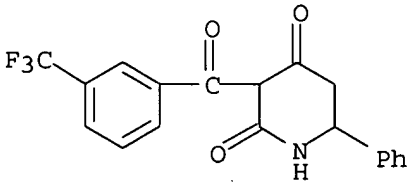
RN 118263-67-5 HCAPLUS
CN 2,4-Piperidinedione, 3-(3-chlorobenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



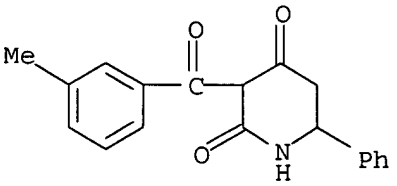
RN 118263-68-6 HCAPLUS
CN 2,4-Piperidinedione, 6-phenyl-3-[3-(trifluoromethoxy)benzoyl]- (9CI) (CA INDEX NAME)



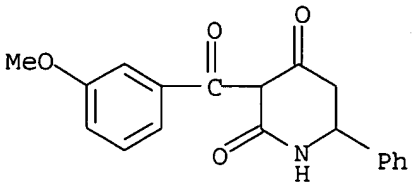
RN 118263-69-7 HCAPLUS
CN 2,4-Piperidinedione, 6-phenyl-3-[3-(trifluoromethyl)benzoyl]- (9CI) (CA INDEX NAME)



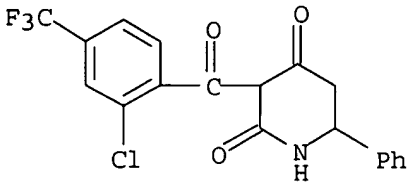
RN 118263-70-0 HCAPLUS
CN 2,4-Piperidinedione, 3-(3-methylbenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



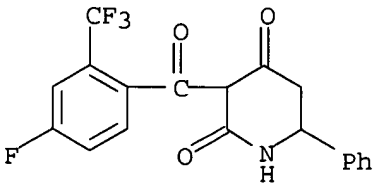
RN 118263-71-1 HCAPLUS
CN 2,4-Piperidinedione, 3-(3-methoxybenzoyl)-6-phenyl- (9CI) (CA INDEX NAME)



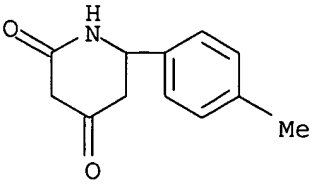
RN 118264-33-8 HCAPLUS
CN 2,4-Piperidinedione, 3-[2-chloro-4-(trifluoromethyl)benzoyl]-6-phenyl- (9CI) (CA INDEX NAME)



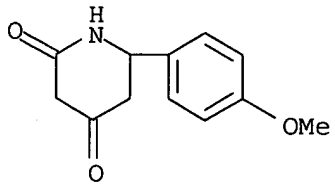
RN 118272-20-1 HCAPLUS
CN 2,4-Piperidinedione, 3-[4-fluoro-2-(trifluoromethyl)benzoyl]-6-phenyl- (9CI) (CA INDEX NAME)



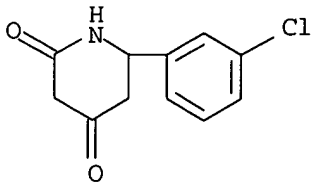
IT **118263-72-2P 118263-73-3P 118263-74-4P**
118263-75-5P 118263-76-6P 118263-93-7P
118263-98-2P 118264-04-3P 118281-17-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, for benzoylpiperidinedione **herbicides**)
RN 118263-72-2 HCAPLUS
CN 2,4-Piperidinedione, 6-(4-methylphenyl)- (9CI) (CA INDEX NAME)



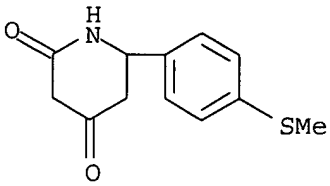
RN 118263-73-3 HCAPLUS
CN 2,4-Piperidinedione, 6-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



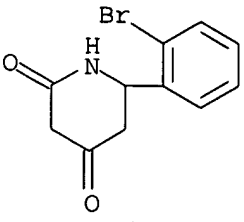
RN 118263-74-4 HCAPLUS
CN 2,4-Piperidinedione, 6-(3-chlorophenyl)- (9CI) (CA INDEX NAME)



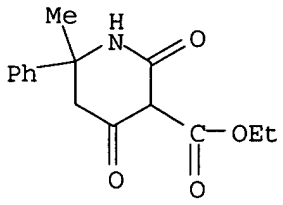
RN 118263-75-5 HCAPLUS
CN 2,4-Piperidinedione, 6-[4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)



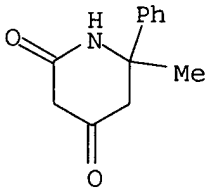
RN 118263-76-6 HCAPLUS
CN 2,4-Piperidinedione, 6-(2-bromophenyl)- (9CI) (CA INDEX NAME)



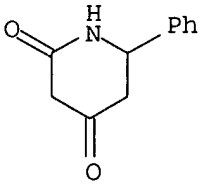
RN 118263-93-7 HCAPLUS
CN 3-Piperidinecarboxylic acid, 6-methyl-2,4-dioxo-6-phenyl-, ethyl ester (9CI) (CA INDEX NAME)



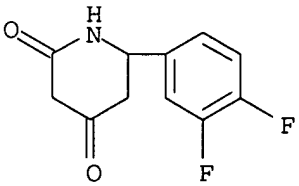
RN 118263-98-2 HCAPLUS
CN 2,4-Piperidinedione, 6-methyl-6-phenyl- (9CI) (CA INDEX NAME)



RN 118264-04-3 HCAPLUS
CN 2,4-Piperidinedione, 6-phenyl- (9CI) (CA INDEX NAME)



RN 118281-17-7 HCAPLUS
CN 2,4-Piperidinedione, 6-(3,4-difluorophenyl)- (9CI) (CA INDEX NAME)



=> d l16 ibib abs hitstr tot

L16 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1989:38898 HCAPLUS
DOCUMENT NUMBER: 110:38898
TITLE: Preparation of benzoylpiperidinediones and other cyclic diones as **herbicides**
INVENTOR(S): Geach, Neil Jonathan; Gilmour, James; Hatton, Leslie

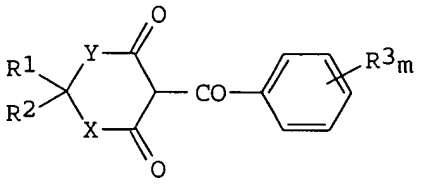
	Roy; Smith, Philip Henry Gaunt
PATENT ASSIGNEE(S):	May and Baker Ltd., UK
SOURCE:	Eur. Pat. Appl., 31 pp.
	CODEN: EPXXDW
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	1
PATENT INFORMATION:	

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 278742	A2	19880817	EP 1988-301103	19880210 <--
EP 278742	A3	19891115		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
FI 8800591	A	19880812	FI 1988-591	19880209 <--
AU 8811454	A1	19880818	AU 1988-11454	19880209 <--
AU 607183	B2	19910228		
ZA 8800911	A	19900131	ZA 1988-911	19880209 <--
DK 8800680	A	19880812	DK 1988-680	19880210 <--
JP 63203644	A2	19880823	JP 1988-29989	19880210 <--
HU 48092	A2	19890529	HU 1988-607	19880210 <--
HU 203941	B	19911128		
CS 273340	B2	19910312	CS 1988-839	19880210 <--
RO 100664	B1	19921120	RO 1988-132128	19880210 <--
BR 8800580	A	19880927	BR 1988-580	19880211 <--
DD 282005	A5	19900829	DD 1988-312844	19880211 <--
US 5114461	A	19920519	US 1989-440208	19891122 <--
AU 9066910	A1	19910627	AU 1990-66910	19901123 <--

PRIORITY APPLN. INFO.:	GB 1987-3068	A	19870211
	GB 1987-7608	A	19870331
	US 1988-154031	B1	19880209

OTHER SOURCE(S): MARPAT 110:38898

GI



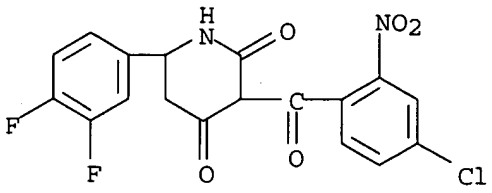
I

AB Title compds. I [X = CH2, O, S, R4N; R4 = H, C1-6 alkyl, C2-7 alkoxycarbonyl; Y = CH2, O, R5R6N; R5 = H, C1-6 alkyl, C2-7 alkoxycarbonyl; R6 = H, C1-6 alkyl; R1 = H; (un)substituted C1-6 alkyl, C3-6 cycloalkyl; R2 = H, R1R2 = C2-6 alkylene, etc.; R3 = halo, HO, H2OC, O2N, cyano, H2N, [(un)substituted C1-6 alkyl]carbamoyl, etc.; m = 0-5], or an agriculturally acceptable salt thereof, were prepared 2,4-(O2N)ClC6H3COCl in CH2Cl2 was added at 5-10° to 6,6-dimethylpiperidine-2,4-dione and Et3N in CH2Cl2, the mixture stirred at ambient temperature for 18 h, Et3N and Me2COHCN were added successively, and the mixture stirred at ambient temperature to give I (R1, R2 = Me; R3m = 2-NO2, 4-Cl; X = NH; Y = CH2) (II). In preemergence test, II at 2000 g/ha gave 100% control of Chenopodium album.

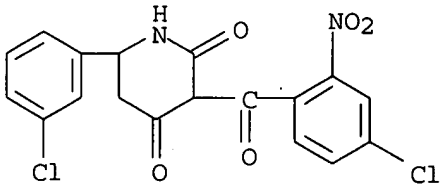
IT **118262-36-5P 118263-48-2P 118263-52-8P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as herbicide)

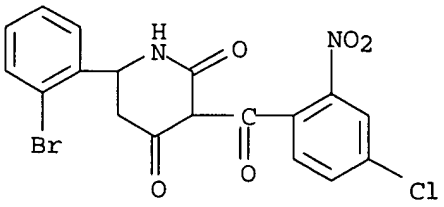
RN 118262-36-5 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-(3,4-difluorophenyl)- (9CI) (CA INDEX NAME)



RN 118263-48-2 HCAPLUS
CN 2,4-Piperidinedione, 3-(4-chloro-2-nitrobenzoyl)-6-(3-chlorophenyl)- (9CI) (CA INDEX NAME)

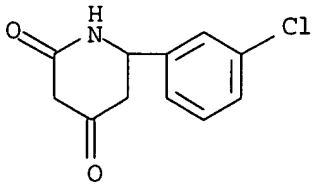


RN 118263-52-8 HCAPLUS
CN 2,4-Piperidinedione, 6-(2-bromophenyl)-3-(4-chloro-2-nitrobenzoyl)- (9CI) (CA INDEX NAME)

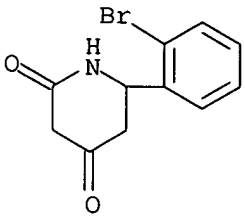


IT **118263-74-4P 118263-76-6P 118281-17-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, for benzoylpiperidinedione **herbicides**)

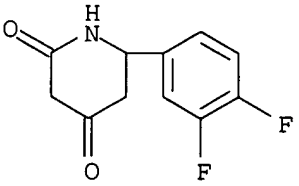
RN 118263-74-4 HCAPLUS
CN 2,4-Piperidinedione, 6-(3-chlorophenyl)- (9CI) (CA INDEX NAME)



RN 118263-76-6 HCAPLUS
CN 2,4-Piperidinedione, 6-(2-bromophenyl)- (9CI) (CA INDEX NAME)



RN 118281-17-7 HCAPLUS
CN 2,4-Piperidinedione, 6-(3,4-difluorophenyl)- (9CI) (CA INDEX NAME)



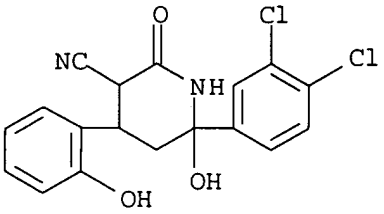
=> d l14 ibib abs hitstr 1-10

L14 ANSWER 1 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:213736 HCAPLUS
DOCUMENT NUMBER: 128:243927
TITLE: Ethyl cyanoacetate in organic synthesis new pyridines and benzopyrano[3,4-c]pyridines
AUTHOR(S): Haggag, B.
CORPORATE SOURCE: National Research Centre, Cairo, Egypt
SOURCE: Al-Azhar Bulletin of Science (**1996**), 7(2), 1217-1227
CODEN: ABSCE7; ISSN: 1110-2535
PUBLISHER: Al-Azhar University, Faculty of Science
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Reaction of Et cyanoacetate with 1,3-diaryl-2-propen-1-ones under basic conditions was investigated to afford Michael-adducts. The latter, upon treating with ammonium acetate gave the corresponding 3-cyano-2(1H)-pyridone derivs. On the other hand, reaction of 3-(2-hydroxyaryl)-2-propen- 1-ones with Et cyanoacetate gave the corresponding

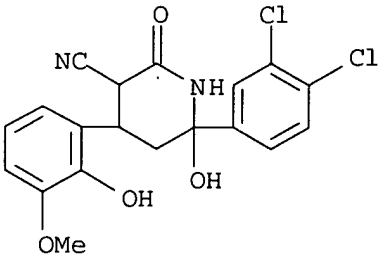
Et 2-amino-4H[1]benzopyran-3-carboxylates which upon treating with ammonium acetate gave the corresponding ethyl-2-amino-4,5-dihydropyridine-3-carboxylates accompanied with 4-amino-5-oxo-[1]benzopyrano[3,4-c]pyridines. Meanwhile, for the reaction of propenone derivs. with Et cyanoacetate in the presence of excess ammonium acetate led to the formation of 3,4-dihydrobenzopyrano[3,4-c]pyridine-4,5- diones along with 2-piperidone. The latter could also be isolated through the reaction of 3-cyanocoumarin derivs. with 3,4-dichloroacetophenone in the presence of ammonium acetate.

IT **204907-27-7P 204907-29-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of benzopyranopyridines and pyridines from Et cyanoacetate)

RN 204907-27-7 HCAPLUS
CN 3-Piperidinecarbonitrile, 6-(3,4-dichlorophenyl)-6-hydroxy-4-(2-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)



RN 204907-29-9 HCAPLUS
CN 3-Piperidinecarbonitrile, 6-(3,4-dichlorophenyl)-6-hydroxy-4-(2-hydroxy-3-methoxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:975371 HCAPLUS
DOCUMENT NUMBER: 124:29605
TITLE: Preparation of aralkylamino-substituted azacyclic tachykinin antagonists
INVENTOR(S): Maccoss, Malcolm; Swain, Christopher John
PATENT ASSIGNEE(S): Merck Sharp and Dohme Ltd., UK
SOURCE: PCT Int. Appl., 49 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE	
WO 9520575	A1	19950803	WO 1995-GB153		19950126	<--
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US						
RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG						
CA 2181376	AA	19950803	CA 1995-2181376		19950126	<--
AU 9514627	A1	19950815	AU 1995-14627		19950126	<--
EP 741704	A1	19961113	EP 1995-906433		19950126	<--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE						
JP 09508376	T2	19970826	JP 1995-519937		19950126	
US 5728716	A	19980317	US 1996-676156		19960711	
PRIORITY APPLN. INFO.:			GB 1994-1639	A	19940128	
			GB 1994-1642	A	19940128	
			WO 1995-GB153	W	19950126	

OTHER SOURCE(S): MARPAT 124:29605

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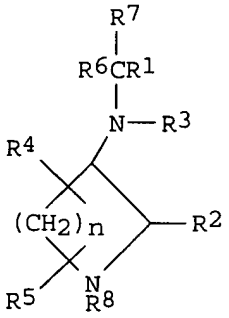


I

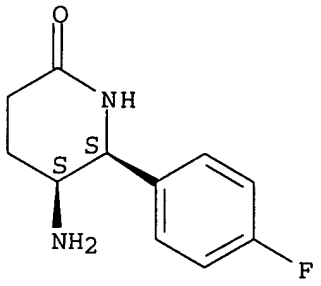
AB The title compds. [I; n = 1-3 and any carbon atom of (CH2)n may be substituted by R4 and/or R5; R1 = (un)substituted alkylphenyl; R2 = (un)substituted aryl, (un)substituted heteroaryl; R3 = H, C1-6 alkyl; R4, R5 = H, halogen, C1-6 alkyl, etc; R6 = H, C1-6 alkyl; R7 = H, C1-6 alkyl optionally substituted by a hydroxy group, alkylamino, etc.; R8 = H, CORa, CO2Ra, COCONRaRb, COCO2Ra, (un)substituted C1-6 alkyl; Ra, Rb = H, (un)substituted alkyl, (un)substituted Ph], useful as tachykinin antagonists (no data) in the treatment of pain (no data), inflammation (no data), migraine (no data), and emesis (no data), are prepared Thus, cis-(±)-3-(2-hydroxy-1-phenylethylamino)phenylpiperidine was prepared from (±)-5-amino-6-phenylpiperidin-2-one and 2-bromo-2-phenylacetic acid.

IT **171274-25-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of aralkylamino-substituted azacyclic tachykinin antagonists from)

RN 171274-25-2 HCAPLUS

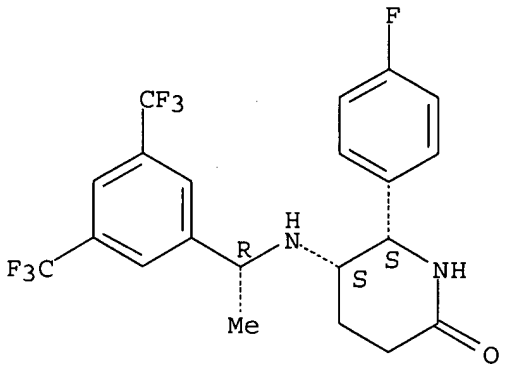
CN 2-Piperidinone, 5-amino-6-(4-fluorophenyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



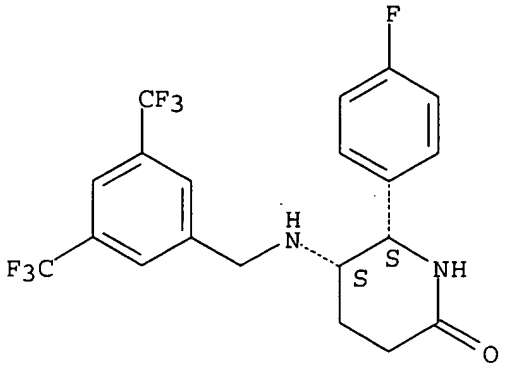
IT **171274-21-8P 171274-22-9P 171482-34-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of aralkylamino-substituted azacyclic tachykinin antagonists from)
RN 171274-21-8 HCAPLUS
CN 2-Piperidinone, 5-[[1-[3,5-bis(trifluoromethyl)phenyl]ethyl]amino]-6-(4-fluorophenyl)-, [5α(S*),6α]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 171274-22-9 HCAPLUS
CN 2-Piperidinone, 5-[[[3,5-bis(trifluoromethyl)phenyl]methyl]amino]-6-(4-fluorophenyl)-, dihydrochloride, cis- (9CI) (CA INDEX NAME)

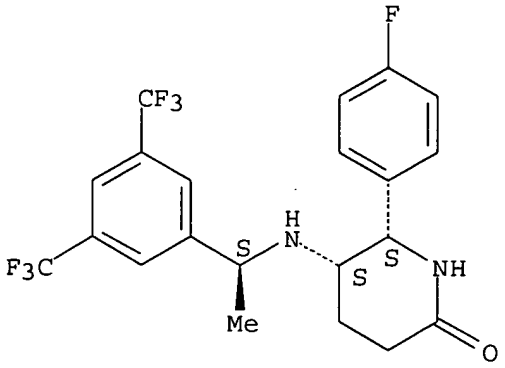
Relative stereochemistry.



●2 HCl

RN 171482-34-1 HCAPLUS
CN 2-Piperidinone, 5-[[1-[3,5-bis(trifluoromethyl)phenyl]ethyl]amino]-6-(4-fluorophenyl)-, [5α(R*),6α]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

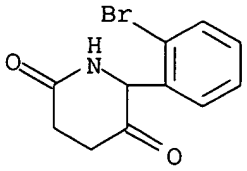


L14 ANSWER 3 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:959352 HCAPLUS
DOCUMENT NUMBER: 124:75541
TITLE: Spiro-piperidine non-peptide neurokinin-1 receptor antagonists
AUTHOR(S): Armour, D. R.; Watson, S. P.; Pegg, N. A.; Heron, N. M.; Middlemiss, D.; Chan, C.; Cholerton, T. J.; Hubbard, T.; Vinader, M. V.; et al.
CORPORATE SOURCE: Glaxo-Wellcome Medicines Res. Centre, Stevenage, Hertfordshire, SG1 2NY, UK
SOURCE: Bioorganic & Medicinal Chemistry Letters (**1995**), 5(22), 2671-6
CODEN: BMCLE8; ISSN: 0960-894X
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The synthesis and activity of a novel spiro-piperidine non-peptide

antagonist of the neurokinin-1 (NK1) receptor is described. Despite having essentially the same solution conformation as CP 99,994 at physiol. pH, the new antagonist has reduced affinity for the NK1 receptor.

IT **160822-16-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(spiro-piperidine non-peptide neurokinin-1 receptor antagonists)

RN 160822-16-2 HCAPLUS
CN 2,5-Piperidinedione, 6-(2-bromophenyl)- (9CI) (CA INDEX NAME)

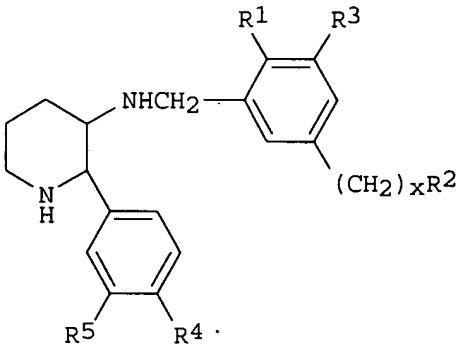


L14 ANSWER 4 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:823012 HCAPLUS
DOCUMENT NUMBER: 123:228191
TITLE: Preparation of 3-(5-tetrazolylbenzyl)piperidinamine derivatives as tachykinin antagonists
INVENTOR(S): Armour, Duncan Robert; Evans, Brian; Giblin, Gerard Martin Paul; Hann, Michael Menteith; Hubbard, Tania; Lewell, Xiao-Qing; Middlemiss, David; Naylor, Alan; Pegg, Neil Anthony; et al.
PATENT ASSIGNEE(S): Glaxo Group Ltd., UK
SOURCE: PCT Int. Appl., 93 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9508549	A1	19950330	WO 1994-EP3129	19940920 <--
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ				
RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
IL 111002	A1	19980924	IL 1994-111002	19940919
CA 2172529	AA	19950330	CA 1994-2172529	19940920 <--
AU 9476974	A1	19950410	AU 1994-76974	19940920 <--
AU 681190	B2	19970821		
ZA 9407291	A	19950531	ZA 1994-7291	19940920 <--
EP 720609	A1	19960710	EP 1994-927627	19940920 <--
EP 720609	B1	19981111		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1135218	A	19961106	CN 1994-194145	19940920 <--
CN 1061041	B	20010124		
JP 09505275	T2	19970527	JP 1994-509554	19940920
JP 2865872	B2	19990308		
HU 75648	A2	19970528	HU 1996-722	19940920

AT 173255	E	19981115	AT 1994-927627		19940920
ES 2123829	T3	19990116	ES 1994-927627		19940920
JP 11106341	A2	19990420	JP 1998-224991		19940920
CZ 285479	B6	19990811	CZ 1996-830		19940920
RU 2136675	C1	19990910	RU 1996-107785		19940920
HR 940575	B1	20000630	HR 1994-940575		19940920
SK 280901	B6	20000912	SK 1996-383		19940920
PL 179585	B1	20000929	PL 1994-313619		19940920
TW 389762	B	20000511	TW 1994-83108909		19940926
FI 9601270	A	19960503	FI 1996-1270		19960319 <--
NO 9601156	A	19960521	NO 1996-1156		19960321 <--
NO 307830	B1	20000605			
US 5703240	A	19971230	US 1996-612843		19960321
US 5843966	A	19981201	US 1997-899190		19970723
PRIORITY APPLN. INFO.:			GB 1993-19606	A	19930922
			GB 1993-26583	A	19931231
			JP 1995-509554	A3	19940920
			WO 1994-EP3129	W	19940920
			US 1996-612843	A1	19960321

OTHER SOURCE(S): MARPAT 123:228191
GI



I

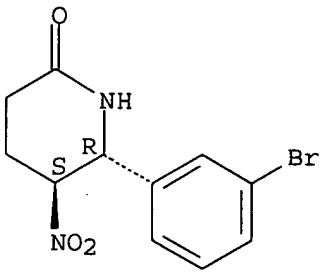
AB Title compds. I (R1 = C1-4 alkoxy; R2 = (substituted)tetrazolyl; R3 = H, halo; R4, R5 = H, halo, C1-4 alkyl, C1-4 alkoxy, F3C) or a salt thereof, useful also as antiemetics, are prepared (2S)-phenylpiperidin-(3S)-ylamine, 2-methoxy-5-(5-trifluoromethyltetrazol-1-yl)benzaldehyde (preparation given), Na triacetoxyborohydride and AcOH were reacted to give an oil which was treated with ethereal HCl to give [2-methoxy-5-(5 trifluoromethyltetrazol-1-yl)benzyl]-([2S,3S]-2-phenylpiperidin-3-yl)amine-2HCl (II). II at 0.03 mg/kg, given to ferret 1.5 h prior to irradiation inhibited radiation-induced emesis. Pharmaceutical formulations comprising I are given. I are claimed for a condition mediated by tachykinins, including substance P and other neurokinins.

IT **168267-18-3P 168267-20-7P 168267-21-8P**
168267-22-9P 168267-24-1P 168267-25-2P
168267-26-3P 168267-28-5P 168267-29-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 3-(5-tetrazolylbenzyl)piperidinamine derivs. as tachykinin antagonists)

RN 168267-18-3 HCAPLUS

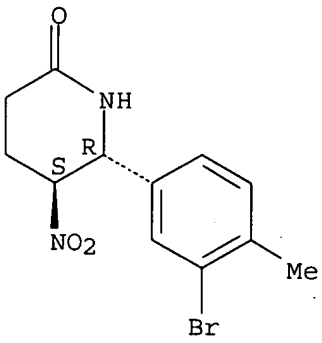
CN 2-Piperidinone, 6-(3-bromophenyl)-5-nitro-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

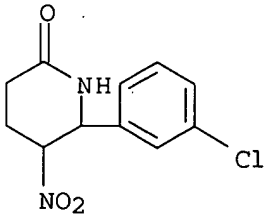


RN 168267-20-7 HCAPLUS
CN 2-Piperidinone, 6-(3-bromo-4-methylphenyl)-5-nitro-, trans- (9CI) (CA INDEX NAME)

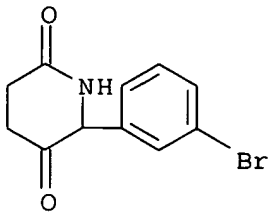
Relative stereochemistry.



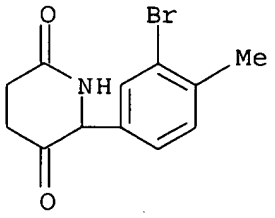
RN 168267-21-8 HCAPLUS
CN 2-Piperidinone, 6-(3-chlorophenyl)-5-nitro- (9CI) (CA INDEX NAME)



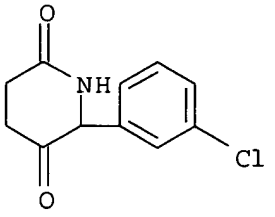
RN 168267-22-9 HCAPLUS
CN 2,5-Piperidinedione, 6-(3-bromophenyl)- (9CI) (CA INDEX NAME)



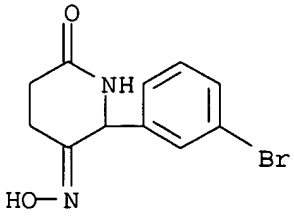
RN 168267-24-1 HCAPLUS
CN 2,5-Piperidinedione, 6-(3-bromo-4-methylphenyl)- (9CI) (CA INDEX NAME)



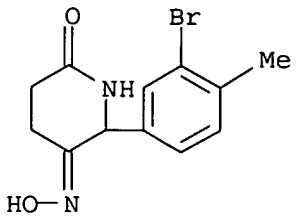
RN 168267-25-2 HCAPLUS
CN 2,5-Piperidinedione, 6-(3-chlorophenyl)- (9CI) (CA INDEX NAME)



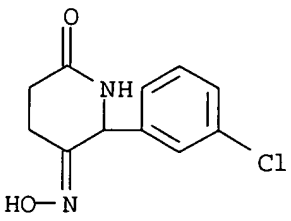
RN 168267-26-3 HCAPLUS
CN 2,5-Piperidinedione, 6-(3-bromophenyl)-, 5-oxime (9CI) (CA INDEX NAME)



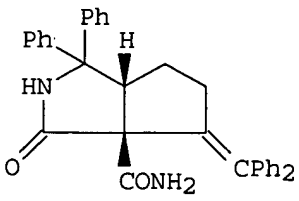
RN 168267-28-5 HCAPLUS
CN 2,5-Piperidinedione, 6-(3-bromo-4-methylphenyl)-, 5-oxime (9CI) (CA INDEX NAME)



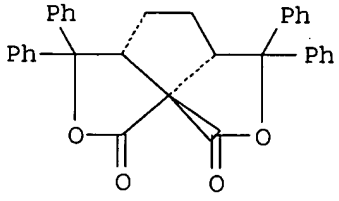
RN 168267-29-6 HCAPLUS
CN 2,5-Piperidinedione, 6-(3-chlorophenyl)-, 5-oxime (9CI) (CA INDEX NAME)



L14 ANSWER 5 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:713374 HCAPLUS
DOCUMENT NUMBER: 123:339607
TITLE: Manganese(III)-mediated oxidative radical cyclization. 2. Reaction of 1,1,ω,ω-tetraaryl-substituted terminal alkadienes with malonamide or acetoacetamide
AUTHOR(S): Nishino, Hiroshi; Hashimoto, Hideaki; Korp, James D.; Kurosawa, Kazu
CORPORATE SOURCE: Dep. Chemistry, Kumamoto Univ., Kumamoto, 860, Japan
SOURCE: Bulletin of the Chemical Society of Japan (**1995**), 68(7), 1999-2009
CODEN: BCSJA8; ISSN: 0009-2673
PUBLISHER: Nippon Kagakkai
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I



II

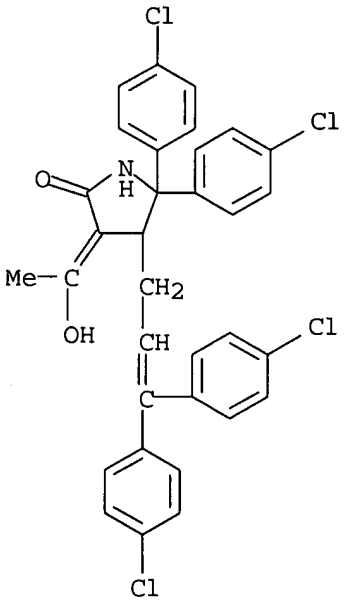
AB The oxidation of 1,1,6,6-tetraaryl-1,5-hexadienes with manganese(III) acetate in the presence of malonamide gave two types of 5-exo cyclization products, 1-carbamoyl-8-(diarylmethylene)-3-azabicyclo[3.3.0]octan-2-ones, e.g., I, and 3,10-dioxatricyclo[6.3.0.01,5]undecane-2,11-diones, e.g., II,

in good to moderate yields. Similar reactions of 1,1,5,5-tetraaryl-1,4-pentadienes or 1,1,7,7-tetraaryl-1,6-heptadienes with malonamide yielded only complex mixts., except for the formation of a small amount of 3,11-dioxatricyclo[7.3.0.01,5]dodecane-2,12-dione. On the other hand, 1,1,5,5-tetraaryl-1,4-pentadienes reacted with acetoacetamide in the presence of manganese(III) acetate to afford 3-carbamoyl-2-methyl-4-(2-propenyl)-4,5-dihydrofurans and 1,4-pentadienes substituted at the 3-position with acetoacetamide. A similar reaction of 1,1,6,6-tetraaryl-1,5-hexadienes with acetoacetamide gave 8-[acetoxy(diaryl)methyl]-3-oxabicyclo[3.3.0]octan-2-ones, 1-acetyl-8-(diarylmethylene)-3-azabicyclo[3.3.0]octan-2-ones, and 4-(3-butenyl)-3-carbamoyl-2-methyl-4,5-dihydrofurans. The selectivity of the inter- and intramol. cyclizations involving the carboxamide moiety of malonamide or acetoacetamide is discussed.

IT **170304-24-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 170304-24-2 HCAPLUS

CN 2-Pyrrolidinone, 4-[3,3-bis(4-chlorophenyl)-2-propenyl]-5,5-bis(4-chlorophenyl)-3-(1-hydroxyethylidene)- (9CI) (CA INDEX NAME)



L14 ANSWER 6 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:297012 HCAPLUS

DOCUMENT NUMBER: 122:105615

TITLE: A novel palladium(0) catalyzed tandem 1,3-allyl shift and Heck arylation

AUTHOR(S): Watson, Stephen P.; Knox, Graham R.; Heron, Nicola M.

CORPORATE SOURCE: Glaxo Research Development Limited, Hertfordshire, SG12 0DP, UK

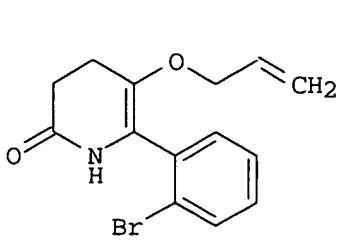
SOURCE: Tetrahedron Letters (**1994**), 35(52), 9763-6
CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 122:105615
GI



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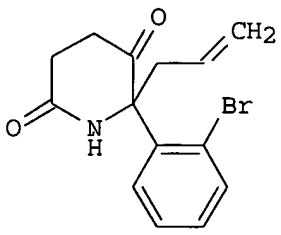
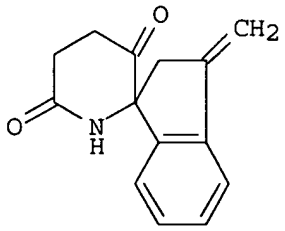


II

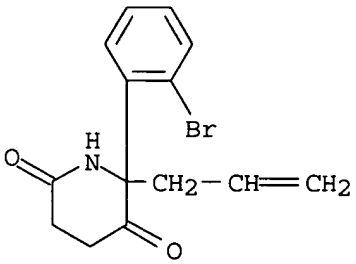


III

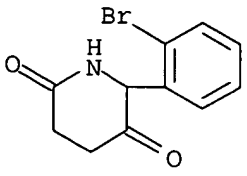
AB On treatment with [Pd(PPh3)4] allyl vinyl ether I undergoes a Pd(0) catalyzed 1,3-oxygen to carbon allyl shift to afford α-allyl ketone II. In the presence of both Pd(PPh3)4 and base the allyl vinyl ether undergoes a Pd(0) catalyzed tandem 1,3-allyl shift and intramol. Heck arylation to give the spiro indane III. Mechanistic investigations suggest that the 1,3-allyl shift proceeds via a π-allyl palladium intermediate.

IT **160822-15-1P 160822-16-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(novel palladium-catalyzed tandem allyl shift and Heck arylation)

RN 160822-15-1 HCAPLUS
CN 2,5-Piperidinedione, 6-(2-bromophenyl)-6-(2-propenyl)- (9CI) (CA INDEX NAME)



RN 160822-16-2 HCAPLUS
CN 2,5-Piperidinedione, 6-(2-bromophenyl)- (9CI) (CA INDEX NAME)



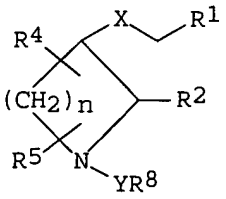
L14 ANSWER 7 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:483342 HCAPLUS
DOCUMENT NUMBER: 121:83342
TITLE: Azacyclic tachykinin antagonists
INVENTOR(S): Baker, Raymond; Laddhwahetty, Tamara; Seward, Eileen Mary; Swain, Christopher John
PATENT ASSIGNEE(S): Merck Sharp and Dohme Ltd., UK
SOURCE: PCT Int. Appl., 132 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9321181	A1	19931028	WO 1993-GB788	19930414 <--
W: AT, AU, BB, BG, BR, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5444074	A	19950822	US 1993-46538	19930413 <--
AU 9340765	A1	19931118	AU 1993-40765	19930414 <--
AU 675786	B2	19970220		
EP 636130	A1	19950201	EP 1993-910151	19930414 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 07505648	T2	19950622	JP 1993-518131	19930414 <--
US 5496833	A	19960305	US 1995-387684	19950213 <--

PRIORITY APPLN. INFO.:

GB 1992-8323	A	19920415
GB 1992-16065	A	19920728
GB 1992-19686	A	19920917
GB 1992-26069	A	19921214
US 1993-46538	A3	19930413
WO 1993-GB788	A	19930414

OTHER SOURCE(S): MARPAT 121:83342
GI



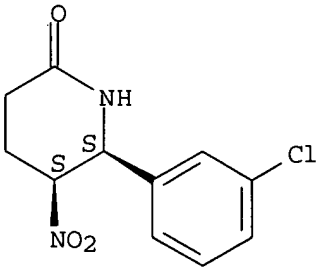
I

AB The title compds. I [R1 = (un)substituted Ph; R2 = (un)substituted aryl, (un)substituted heteroaryl, (un)substituted benzhydryl, (un)substituted PhCH2; R4, R5 = H, halogen, C1-6 alkyl, oxo, etc.; R8 = (un)substituted aromatic heterocycle; X = O, S; Y = (un)substituted C1-4 hydrocarbon chain; n = 1-3], useful as tachykinin antagonists (no data), are prepared and I-containing formulations presented. Thus, hydroxyguanidine sulfate was reacted with (2R,3R)-3-[[3,5-bis(trifluoromethyl)phenyl]methoxy]-1-(carbomethoxy)methyl-2-phenylpiperidine, producing 3-amino-5-[[(2R,3R)-3-[[3,5-bis(trifluoromethyl)phenyl]methoxy]-2-phenylpiperidino]methyl]-1,2,4-oxadiazole.

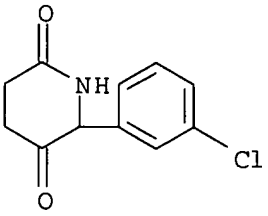
IT **155765-33-6 168267-25-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation as intermediate in preparation of azacyclic tachykinin antagonists)

RN 155765-33-6 HCAPLUS
CN 2-Piperidinone, 6-(3-chlorophenyl)-5-nitro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

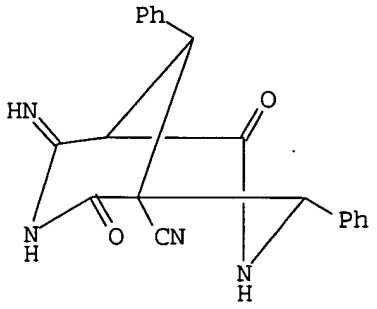


RN 168267-25-2 HCAPLUS
CN 2,5-Piperidinedione, 6-(3-chlorophenyl)- (9CI) (CA INDEX NAME)

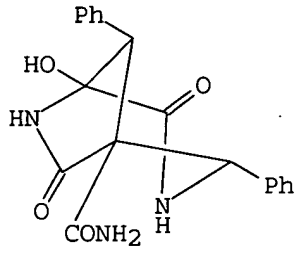


L14 ANSWER 8 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:323524 HCAPLUS
DOCUMENT NUMBER: 120:323524
TITLE: Novel cyclodimerization reactions of 2-cyano-3-phenylprop-2-enamide
AUTHOR(S): O'Callaghan, Conor N.; McMurry, T. Brian H.; Cardin, Christine J.; Wilcock, Deborah J.
CORPORATE SOURCE: Trinity Coll., Univ. Chem. Lab., Dublin, Ire.
SOURCE: Journal of Chemical Research, Synopses (**1994**), (2), 60-1,401-27
CODEN: JRPSDC; ISSN: 0308-2342
DOCUMENT TYPE: Journal
LANGUAGE: English

OTHER SOURCE(S): CASREACT 120:323524
GI



I



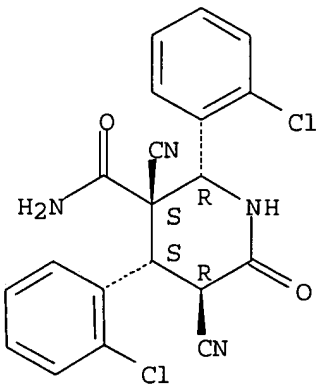
II

AB 4-Imino-8,9-diphenyl-2,6-dioxo-3,7-diazabicyclo[3.3.1]nonane-1-carbonitrile (I) is readily obtained from 2-cyano-3-phenyl-2-propenamide in dry EtOH in the presence of NaOEt; when undried alc. is used, however, the product is 5-hydroxy-2,8-diphenyl-4,7-dioxo-3,6-diazabicyclo[3.2.1]octane-1-carboxamide (II), the structure of which was confirmed by x-ray crystal anal.

IT **154879-16-0P 154879-17-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

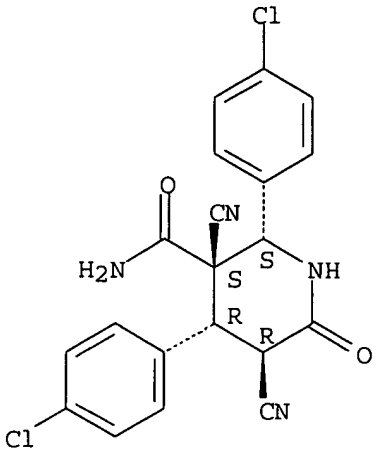
RN 154879-16-0 HCAPLUS
CN 3-Piperidinecarboxamide, 2,4-bis(2-chlorophenyl)-3,5-dicyano-6-oxo-, (2α,3α,4α,5β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

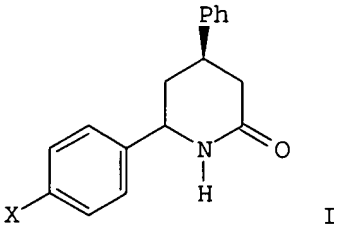


RN 154879-17-1 HCAPLUS
CN 3-Piperidinecarboxamide, 2,4-bis(4-chlorophenyl)-3,5-dicyano-6-oxo-, (2α,3α,4α,5β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L14 ANSWER 9 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:244592 HCAPLUS
DOCUMENT NUMBER: 120:244592
TITLE: Synthesis and stereochemistry of cis- and trans-4,6-diaryl-2-piperidones
AUTHOR(S): Rao, H. Surya Prakash; Bharathi, Balasubramanian
CORPORATE SOURCE: Dep. Chem., Pondicherry Univ., Pondicherry, 605 014, India
SOURCE: Journal of Chemical Research, Synopses (**1994**), (3), 87
CODEN: JRPSDC; ISSN: 0308-2342
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 120:244592
GI



I

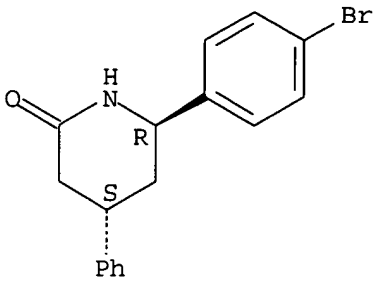
AB A simple, versatile synthetic method for cis- and trans-4,6-diaryl-2-piperidinones I (X = H, Me, halo) was reported. Two-carbon 1,4-addition to variously substituted chalcones and subsequent 2-step reductive amination, and cyclization via oxime intermediates results in formation of cis- and trans-I. The configuration and conformation of cis- and trans-I were assigned from 1H NMR spectra data which indicate that both cis- and trans-I isomers are stabilized in half-chair conformations.

IT **154356-92-0P**, 2-Piperidinone, 6-(4-bromophenyl)-4-phenyl-, trans-
154356-93-1P, 2-Piperidinone, 6-(4-chlorophenyl)-4-phenyl-, cis-
154356-94-2P, 2-Piperidinone, 6-(4-chlorophenyl)-4-phenyl-, trans-
154356-95-3P, 2-Piperidinone, 6-(4-bromophenyl)-4-phenyl-, cis-

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, from diaryl(oxo)pentanoate)

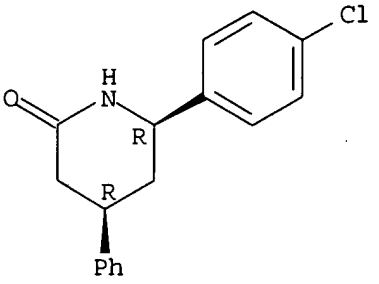
RN 154356-92-0 HCAPLUS
CN 2-Piperidinone, 6-(4-bromophenyl)-4-phenyl-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



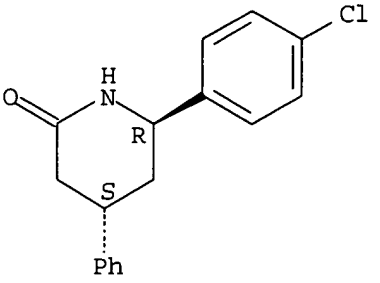
RN 154356-93-1 HCAPLUS
CN 2-Piperidinone, 6-(4-chlorophenyl)-4-phenyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



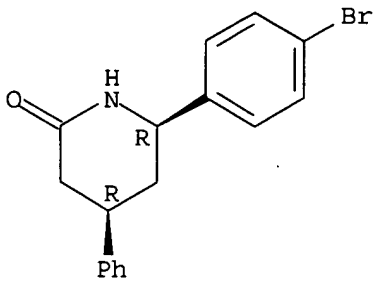
RN 154356-94-2 HCAPLUS
CN 2-Piperidinone, 6-(4-chlorophenyl)-4-phenyl-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

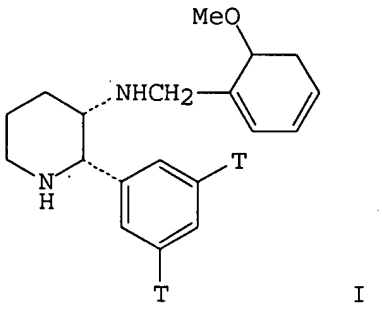


RN 154356-95-3 HCAPLUS
CN 2-Piperidinone, 6-(4-bromophenyl)-4-phenyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L14 ANSWER 10 OF 32 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:77147 HCAPLUS
DOCUMENT NUMBER: 120:77147
TITLE: Synthesis, in vitro binding profile, and autoradiographic analysis of [3H]-cis-3-[(2-methoxybenzyl)amino]-2-phenylpiperidine, a highly potent and selective nonpeptide substance P receptor antagonist radioligand
AUTHOR(S): Rosen, Terry; Seeger, Thomas F.; McLean, Stafford; Desai, Manoj C.; Guarino, Karen J.; Bryce, Dianne; Pratt, Kara; Heym, James; Chalabi, Philip M.; et al.
CORPORATE SOURCE: Dep. Med., Pfizer Cent. Res., Groton, CT, 06340, USA
SOURCE: Journal of Medicinal Chemistry (**1993**), 36(21), 3197-201
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



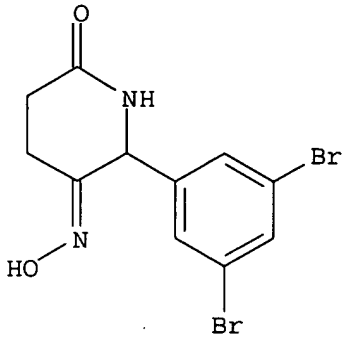
I

AB The synthesis of the title compound I, a highly potent and selective NK1 receptor antagonist radioligand, is described. The in vitro binding pharmacol. and autoradiog. distribution of I in guinea pig brain following peripheral administration are also reported.

IT **151296-75-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and catalytic reduction of, stereochem. of amine from)

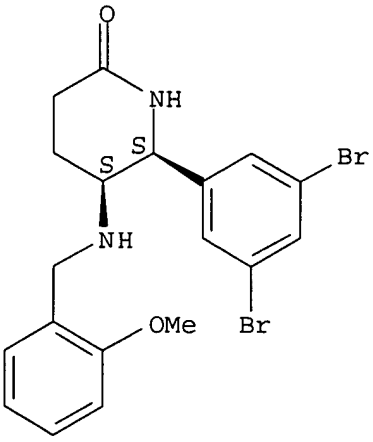
RN 151296-75-2 HCAPLUS

CN 2,5-Piperidinedione, 6-(3,5-dibromophenyl)-, 5-oxime (9CI) (CA INDEX NAME)



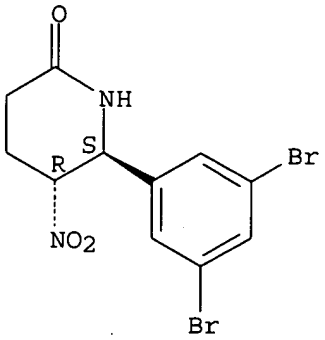
IT **151296-76-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydride reduction of)
RN 151296-76-3 HCAPLUS
CN 2-Piperidinone, 6-(3,5-dibromophenyl)-5-[[(2-methoxyphenyl)methyl]amino]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

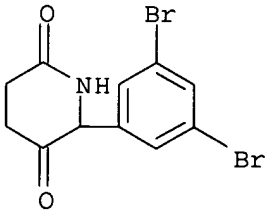


IT **151296-74-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of, oxopiperidinone from)
RN 151296-74-1 HCAPLUS
CN 2-Piperidinone, 6-(3,5-dibromophenyl)-5-nitro-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

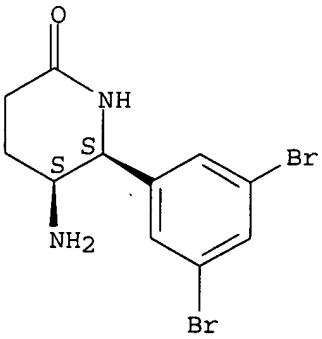


IT **151296-71-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oximation of)
RN 151296-71-8 HCAPLUS
CN 2,5-Piperidinedione, 6-(3,5-dibromophenyl)- (9CI) (CA INDEX NAME)



IT **151296-72-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reductive alkylation of, with methoxybenzaldehdye)
RN 151296-72-9 HCAPLUS
CN 2-Piperidinone, 5-amino-6-(3,5-dibromophenyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	130.77	470.79

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-16.79	-16.79

FILE 'REGISTRY' ENTERED AT 16:31:27 ON 29 AUG 2005

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 28 AUG 2005 HIGHEST RN 861926-07-0
DICTIONARY FILE UPDATES: 28 AUG 2005 HIGHEST RN 861926-07-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
****

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

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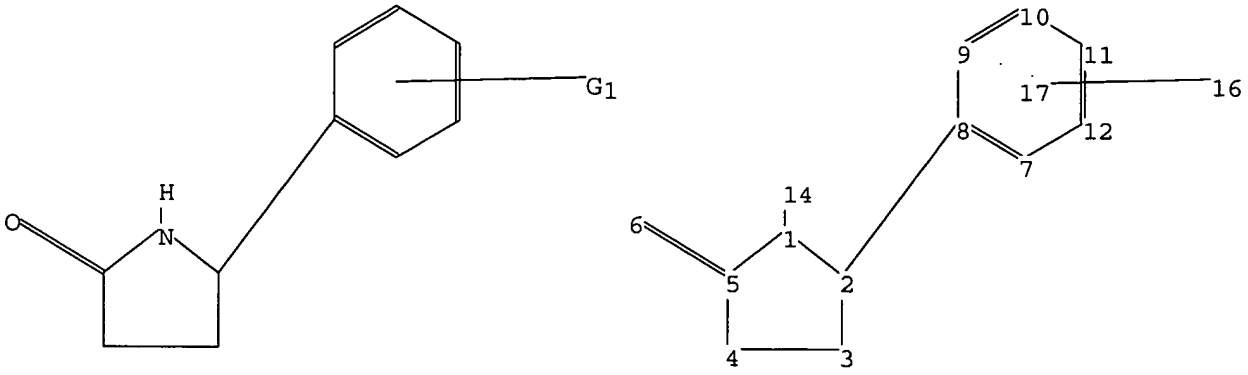
Uploading C:\Program Files\Stnexp\Queries\10768294b.str



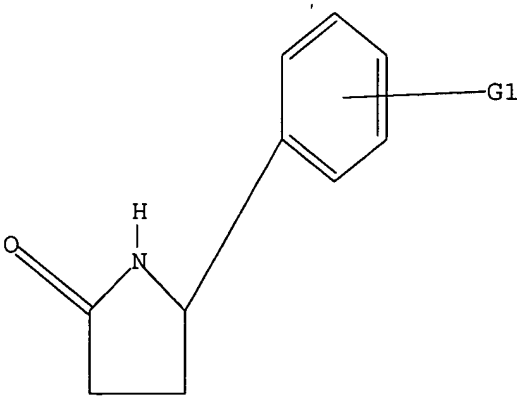
chain nodes :
6 14 16
ring nodes :
1 2 3 4 5 7 8 9 10 11 12
chain bonds :
1-14 2-8 5-6
ring bonds :
1-2 1-5 2-3 3-4 4-5 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
1-2 1-5 5-6
exact bonds :
1-14 2-3 2-8 3-4 4-5
normalized bonds :
7-8 7-12 8-9 9-10 10-11 11-12
isolated ring systems :
containing 1 : 7 :

G1:X,CN

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 14:CLASS 16:CLASS 17:CLASS

L17 STRUCTURE UPLOADED

=> d l17
L17 HAS NO ANSWERS
L17 STR



G1 X,CN

Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED - 4416 TO ITERATE

45.3% PROCESSED 2000 ITERATIONS 3 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 84335 TO 92305
PROJECTED ANSWERS: 3 TO 286

L18 3 SEA SSS SAM L17

=> s l17 sss full
FULL SEARCH INITIATED 16:31:57 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 86931 TO ITERATE

100.0% PROCESSED 86931 ITERATIONS 76 ANSWERS
SEARCH TIME: 00.00.03

L19 76 SEA SSS FUL L17

=> FIL HCAPLUS
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	161.33	632.12

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-16.79

FILE 'HCAPLUS' ENTERED AT 16:32:06 ON 29 AUG 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 29 Aug 2005 VOL 143 ISS 10
FILE LAST UPDATED: 28 Aug 2005 (20050828/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

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L20 27 L19

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17466452 PY<=1996
L21 9 L20 AND PY<=1996

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=> s l20 and pesticides
         61855 PESTICIDES
L22          6 L20 AND PESTICIDES

=> s l21 and pesticides
         61855 PESTICIDES
L23          0 L21 AND PESTICIDES

=> d l21 ibib abs hitstr tot
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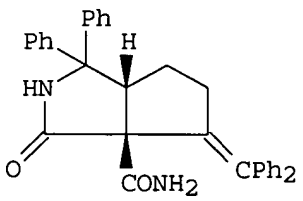
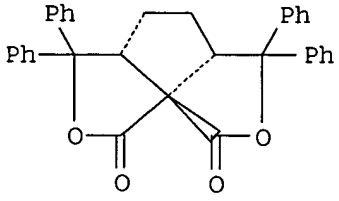
L21 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:713374 HCAPLUS
DOCUMENT NUMBER: 123:339607
TITLE: Manganese(III)-mediated oxidative radical cyclization. 2. Reaction of 1,1,ω,ω-tetraaryl-substituted terminal alkadienes with malonamide or acetoacetamide
AUTHOR(S): Nishino, Hiroshi; Hashimoto, Hideaki; Korp, James D.; Kurosawa, Kazu
CORPORATE SOURCE: Dep. Chemistry, Kumamoto Univ., Kumamoto, 860, Japan
SOURCE: Bulletin of the Chemical Society of Japan (**1995**), 68(7), 1999-2009
CODEN: BCSJA8; ISSN: 0009-2673
PUBLISHER: Nippon Kagakkai
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

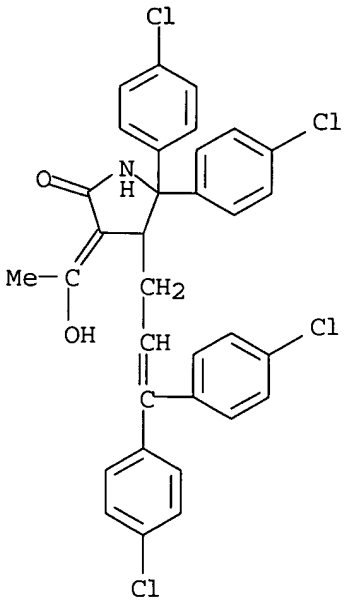


II

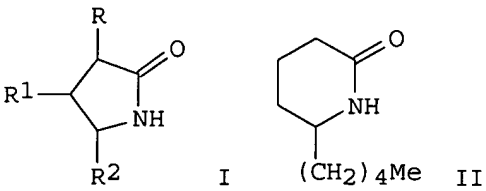
AB The oxidation of 1,1,6,6-tetraaryl-1,5-hexadienes with manganese(III) acetate in the presence of malonamide gave two types of 5-exo cyclization products, 1-carbamoyl-8-(diarylmethylene)-3-azabicyclo[3.3.0]octan-2-ones, e.g., I, and 3,10-dioxatricyclo[6.3.0.01,5]undecane-2,11-diones, e.g., II, in good to moderate yields. Similar reactions of 1,1,5,5-tetraaryl-1,4-pentadienes or 1,1,7,7-tetraaryl-1,6-heptadienes with malonamide yielded only complex mixts., except for the formation of a small amount of 3,11-dioxatricyclo[7.3.0.01,5]dodecane-2,12-dione. On the other hand, 1,1,5,5-tetraaryl-1,4-pentadienes reacted with acetoacetamide in the presence of manganese(III) acetate to afford 3-carbamoyl-2-methyl-4-(2-propenyl)-4,5-dihydrofurans and 1,4-pentadienes substituted at the 3-position with acetoacetamide. A similar reaction of 1,1,6,6-tetraaryl-1,5-hexadienes with acetoacetamide gave 8-[acetoxy(diaryl)methyl]-3-oxabicyclo[3.3.0]octan-2-ones, 1-acetyl-8-(diarylmethylene)-3-azabicyclo[3.3.0]octan-2-ones, and 4-(3-butenyl)-3-carbamoyl-2-methyl-4,5-dihydrofurans. The selectivity of the inter- and intramol. cyclizations involving the carboxamide moiety of malonamide or acetoacetamide is discussed.

IT **170304-24-2P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 170304-24-2 HCAPLUS
CN 2-Pyrrolidinone, 4-[3,3-bis(4-chlorophenyl)-2-propenyl]-5,5-bis(4-chlorophenyl)-3-(1-hydroxyethylidene)- (9CI) (CA INDEX NAME)



L21 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1984:438294 HCAPLUS
DOCUMENT NUMBER: 101:38294
TITLE: A liquid chromatographic method for resolving chiral lactams as their diastereomeric ureide derivatives
AUTHOR(S): Pirkle, William H.; Robertson, Michael R.; Hyun, Myung Ho
CORPORATE SOURCE: Sch. Chem. Sci., Univ. Illinois, Urbana, IL, 61801, USA
SOURCE: Journal of Organic Chemistry (**1984**), 49(13), 2433-7
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 101:38294
GI



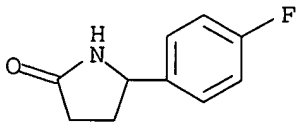
I II

AB Racemic lactams I (R = R1 = H, R2 = Me, Ph, hexyl, 4-F-C6H4, 4-MeC6H4; R = R2 = H, R1 = Ph; R1 = R2 = H, R = hexyl, Ph) and II reacted with chiral isocyanates (R)-(1-C10H7)CHMeNCO or (S)-PhCHMeNCO to give diastereomeric ureides that were readily separated by chromatog. on silica. The elution order and sense of NMR nonequivalence of each pair of diastereomeric ureides was related to relative (and hence absolute) configuration of the lactam enantiomers, which were readily recovered from the separated ureides. The enantiomeric purity and absolute configuration of these lactams was also determined by NMR using (S)-2,2,2-trifluoro-1-(9-anthryl)ethanol as chiral solvating agent.

IT **90432-58-9**
RL: PROC (Process)
(resolution of, by chromatog. of diastereomeric ureides)

RN 90432-58-9 HCAPLUS

CN 2-Pyrrolidinone, 5-(4-fluorophenyl)- (9CI) (CA INDEX NAME)



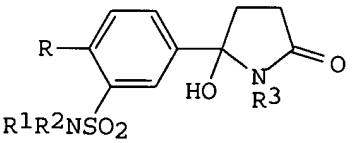
L21 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1981:603736 HCAPLUS
DOCUMENT NUMBER: 95:203736
TITLE: Benzenesulfonamide derivatives
INVENTOR(S): Lang, Hans Jochen; Muschaweck, Roman; Hropot, Max
PATENT ASSIGNEE(S): Hoechst A.-G., Hung.
SOURCE: Hung. Teljes, 52 pp.
CODEN: HUXXBU
DOCUMENT TYPE: Patent
LANGUAGE: Hungarian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
HU 19761	O	19810428	HU 1978-HO2095	19780817 <--
HU 177456	P	19811028		

PRIORITY APPLN. INFO.: HU 1978-HO2095 19780817

GI



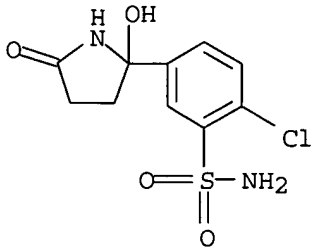
I

AB Diuretic and saluretic benzenesulfonamides I and 4,3-R(R1R2NSO2)C6H3COCH2CH2CONHR3 (II) (R = H, Me, CF3, halo; R1 = H, alkyl; R2 = H, C1-10 alkyl, alkoxy or dialkoxyalkyl, alkenyl, C3-12 cycloalkyl, alkylcycloalkyl, optionally substituted Ph, aralkyl; R1R2 = (CH2)4-5, R3 =

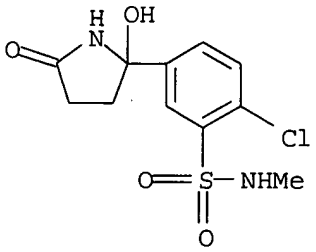
H, alkyl, methoxyalkyl, alkenyl, cycloalkyl, PhCH2) were prepared in various ways. Thus, 4,3-Cl(H2NSO2)C6H3COCH2CH2CO2H in THF was stirred with Et3N and ClCO2Me 5-10 min at 0° and treated with aqueous MeNH2 to give I and II (R = Cl, R1 = R2 = H, R3 = Me).

IT **70324-85-5P 70325-15-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 70324-85-5 HCAPLUS
CN Benzenesulfonamide, 2-chloro-5-(2-hydroxy-5-oxo-2-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 70325-15-4 HCAPLUS
CN Benzenesulfonamide, 2-chloro-5-(2-hydroxy-5-oxo-2-pyrrolidinyl)-N-methyl- (9CI) (CA INDEX NAME)



L21 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1979:439311 HCAPLUS
DOCUMENT NUMBER: 91:39311
TITLE: Benzenesulfonamide derivatives
INVENTOR(S): Lang, Hans Jochen; Muschaweck, Roman; Hropot, Max
PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.
SOURCE: Ger. Offen., 75 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2737195	A1	19790301	DE 1977-2737195	19770818 <--
EP 1051	A2	19790321	EP 1978-100621	19780807 <--
EP 1051	B1	19810211		

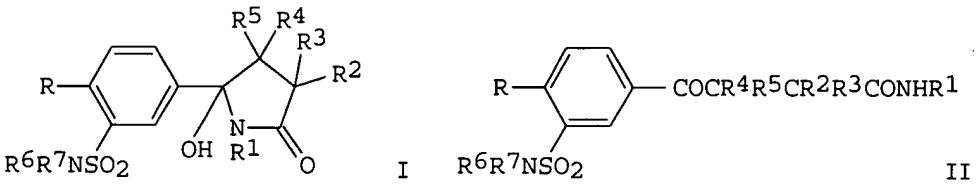
R: BE, CH, DE, FR, GB, NL, SE

ES 472528	A1	19791001	ES 1978-472528		19780811 <--
FI 7802500	A	19790219	FI 1978-2500		19780816 <--
US 4235918	A	19801125	US 1978-934063		19780816 <--
IL 55369	A1	19840531	IL 1978-55369		19780816 <--
DK 7803635	A	19790219	DK 1978-3635		19780817 <--
ZA 7804689	A	19790829	ZA 1978-4689		19780817 <--
AU 7839007	A1	19800221	AU 1978-39007		19780817 <--
AU 519998	B2	19820107			
CA 1117951	A1	19820209	CA 1978-309538		19780817 <--
AT 7805985	A	19821015	AT 1978-5985		19780817 <--
AT 371109	B	19830610			
AT 8105411	A	19830915	AT 1981-5411		19811217 <--
AT 374454	B	19840425			
AT 8105412	A	19830915	AT 1981-5412		19811217 <--
AT 374455	B	19840425			
AT 8105413	A	19830915	AT 1981-5413		19811217 <--
AT 374456	B	19840425			
AT 8105414	A	19830915	AT 1981-5414		19811217 <--
AT 374457	B	19840425			

PRIORITY APPLN. INFO.:

DE 1977-2737195 19770818
AT 1978-5985 A 19780817

GI



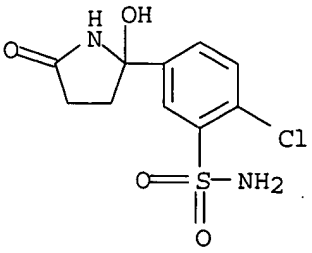
I II

AB Tautomeric benzenesulfonamides I and II (R = H, halogen, CF3, Me; R1 = H, alkyl, alkenyl, methoxyalkyl, cycloalkyl, CH2Ph; R2-R6 = H, alkyl; R7 = H, alkyl, alkenyl, cycloalkyl, cycloalkylalkyl, phenylalkyl, optionally substituted by Me, OMe, Cl) were prepared for use as diuretics (no data). Thus, 4,3-Cl(H2NSO2)C6H3COCH2CH2CO2H was treated with MeNH2 in the presence of ClCO2Et to give I and II (R = Cl, R1 = Me, R2-R7 = H).

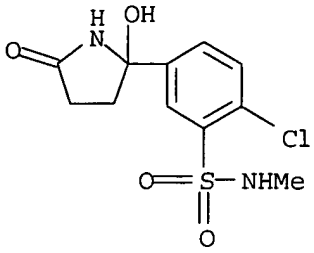
IT **70324-85-5P 70325-15-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 70324-85-5 HCAPLUS

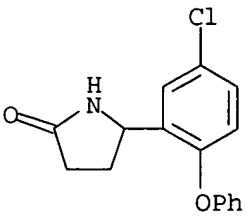
CN Benzenesulfonamide, 2-chloro-5-(2-hydroxy-5-oxo-2-pyrrolidinyl)- (9CI) (CA INDEX NAME)



RN 70325-15-4 HCAPLUS
CN Benzenesulfonamide, 2-chloro-5-(2-hydroxy-5-oxo-2-pyrrolidinyl)-N-methyl- (9CI) (CA INDEX NAME)



L21 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1975:57661 HCAPLUS
DOCUMENT NUMBER: 82:57661
TITLE: Condensed heterotricycles. 10,11-Ring-annealed dibenz[b,f][1,4]oxazepines
AUTHOR(S): Nagarajan, K.; Shah, R. K.
CORPORATE SOURCE: Res. Cent., CIBA, Bombay, India
SOURCE: Indian Journal of Chemistry (**1974**), 12(3), 263-9
CODEN: IJOCAP; ISSN: 0019-5103
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 82:57661
GI For diagram(s), see printed CA Issue.
AB Imino chlorides I (R = H, Cl, NO2, R1 = H, OMe, R2 = H, Cl) are converted into γ-hydroxypropylamines and then by treatment with POCl3 and alkali into II. Mercaptotriazolodibenzoxazepines, triazolodibenzoxazepines, and tetrazolodibenzoxazepines were similarly prepared, but the pyrrolidone III could not be cyclized to the pyrrolodibenzoxazepine. During the formation of I (R = NO2, R1 = R2 = H), benzoxazole (IV) is obtained. In the reactions of I (R = NO2, R1 = R2 = H) with amines, similar benzoxazoles are obtained as byproducts.
IT **54585-00-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 54585-00-1 HCAPLUS
CN 2-Pyrrolidinone, 5-(5-chloro-2-phenoxyphenyl)- (9CI) (CA INDEX NAME)

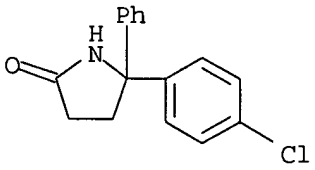


L21 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

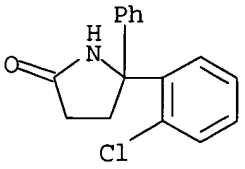
ACCESSION NUMBER: 1974:425541 HCAPLUS
DOCUMENT NUMBER: 81:25541
TITLE: 5,5-Diphenyl-2-pyrrolidinone compounds
INVENTOR(S): Loev, Bernard
PATENT ASSIGNEE(S): Smithkline Corp.
SOURCE: U.S., 4 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3804854	A	19740416	US 1971-189333	19711014 <--
PRIORITY APPLN. INFO.:			US 1971-189333 A	19711014

GI For diagram(s), see printed CA Issue.
AB The pyrrolidinones I (R = H, OH, OMe; R1 = H, p-Cl, o-Cl) wer prepared Thus, Ph2C:CHCH2CO2H was treated with SOCl2 and NH3 to give Ph2C:CHCH2CONH2 which was cyclized with polyphosphoric acid to give I (R = R1 = H). At 1-5 mg/ kg I were coronary vasodilators in dogs.
IT **52999-70-9P 52999-72-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 52999-70-9 HCAPLUS
CN 2-Pyrrolidinone, 5-(4-chlorophenyl)-5-phenyl- (9CI) (CA INDEX NAME)

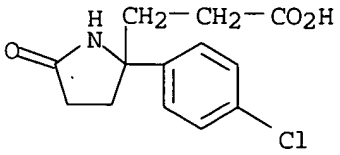


RN 52999-72-1 HCAPLUS
CN 2-Pyrrolidinone, 5-(2-chlorophenyl)-5-phenyl- (9CI) (CA INDEX NAME)



L21 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1973:442113 HCAPLUS
DOCUMENT NUMBER: 79:42113
TITLE: Hydrolysis of some γ-cyano-γ-arylpimelonitriles
AUTHOR(S): Fateen, A. K.; Abdel Rahman, S. M.; Kaddah, A. M.
CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
SOURCE: Indian Journal of Chemistry (**1973**), 11(3), 225-8
CODEN: IJOCAP; ISSN: 0019-5103

DOCUMENT TYPE: Journal
LANGUAGE: English
AB Hydrolysis of 4-RC6H4C(CH2CH2CN)2CN (I, R = Cl, MeO, NO2) with dilute HCl gave II, which were converted to amides via the acid chlorides. Cleavage of the piperidine ring in II was effected with 2N NaOH. I was completely hydrolyzed to the tricaboxylic acid with dilute H2SO4; hydrolysis with aqueous KOH gave the arylcarboxypimelamaide. Treatment of I (r = Cl) with NaOEt gave III.
IT **42307-97-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 42307-97-1 HCAPLUS
CN 2-Pyrrolidinepropanoic acid, 2-(4-chlorophenyl)-5-oxo- (9CI) (CA INDEX NAME)



L21 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1968:496456 HCAPLUS
DOCUMENT NUMBER: 69:96456
TITLE: 4-Alkoxy-5-phenyl-3-pyrrolin-2-ones
INVENTOR(S): Hofmann, Corris M.; Safir, Sidney R.
PATENT ASSIGNEE(S): American Cyanamid Co.
SOURCE: U.S., 6 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 3401176	A	19680910	US 1965-475250		19650727 <--
PRIORITY APPLN. INFO.:			US 1965-475250	A	19650727

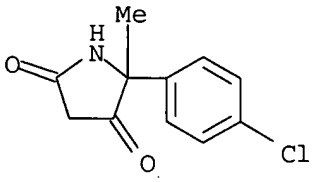
GI For diagram(s), see printed CA Issue.
AB 2-Amino-2-phenylalkanecarboxamides are treated with AcCl or α-alkylacetoacetic esters, and the resulting 2-acetamido-2-phenylalkanecarboxamides treated with polyphosphoric acid or H2SO4 and an alc. to give the corresponding 2-acetamido-2-phenylalkanoic esters. The esters are cyclized and the resulting 5-phenylpyrrolidine-2,4-diones are alkylated to give the title compds. (I). Thus, 19.6 g. AcCl was slowly added to a mixture of 41 g. 2-amino-2-phenylpropionamide, 25 g. Et3N, and 1250 ml. acetone, and the mixture stirred 3 hrs. and worked up to yield 33 g. 2-acetamido-2-phenylpropionamide (II), m. 188-9° (EtOH). Similarly were prepared the following RR1CPhCONH2 (R, R1, and m.p. given): Et, NHAc, 175.5-76°; Pr, NHAc, 156-7°; Me, NHCOCH2Ac, 152-5°; Me, NHCOCH2COEt, 139-40°; and Et, NHCOCH2Ac, 165-6°. A mixture of 30 g. II and 300 g. polyphosphoric acid was warmed (steam bath) 1 hr. and worked up to yield 27 g. Me 2-acetamido-2-phenylpropionate (III), m. 131-2°. Similarly were prepared the following RR1CPhCO2Me (R, R1, and m.p. given): Et, NHAc, 152.5-3.5°; Pr, NHAc, 107-8°; Me, NHCOCH2Ac, 123-5°;

Me, NHCOCH2COEt, 100-2°; Et, NHCOCH2Ac, 95-7°; and H, NHCOCH2Ac, 85-5.5°. A solution of 18.6 g. III in 125 ml. toluene was refluxed with 9.2 g. 54.7% NaH 4 hrs. and worked up to yield 10 g. 5-methyl-5-phenylpyrrolidine-2,4-dione (IV) (R = Me, R1 = H) m. 137-8° (EtOAc). Similarly were prepared the following IV (R, R1, and m.p. given): Et, H, 149-50°; Pr, H, 120-1°; Me, Me, 185-7°; Me, Et, 95-9° (decomposition); Et, Me, 179-81° (decomposition); H, Ac, 126-8°; and H, H, 126-7.5°. A solution of 1.9 g. IV, 1.9 g. Me2SO4, and 10 ml. N NaOMe was refluxed 4 hrs. and worked up to yield 0.9 g. 4-methoxy-5-methyl-5-phenyl-3-pyrrolin-2-one (I) (R = R2 = Me, R1 = H), m. 178-82° (MeOH). Similarly were prepared the following I (R, R1, R2, and m.p. given): Me, H, Et, 156-7°; Me, H, Pr, 112.5-13.5°; Et, H, Me, 154-5°; Et, H, Et, 153-5°; Et, H, Pr, 144-5.5°; Et, H, Bu, 112-13°; Et, H, Me2N(CH2)2, 86-8°; Pr, H, Et, 154.5-5.5°; Me, Me, Me, 180-1°; Me, Me, Et, 142-3.5°; Me, Et, Me, 174-9°; Et, Me, Et, 168-8.5°; and H, H, Me, 180-5°.

IT **19860-41-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 19860-41-4 HCAPLUS

CN 2,4-Pyrrolidinedione, 5-(p-chlorophenyl)-5-methyl- (8CI) (CA INDEX NAME)



L21 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1940:33558 HCAPLUS
DOCUMENT NUMBER: 34:33558
ORIGINAL REFERENCE NO.: 34:5078e-i,5079a-f
TITLE: Some reactions of δβ-γ-lactones
AUTHOR(S): Walton, E.
SOURCE: Journal of the Chemical Society, Abstracts (**1940**) 438-42
CODEN: JCSAAZ; ISSN: 0590-9791
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

GI For diagram(s), see printed CA Issue.

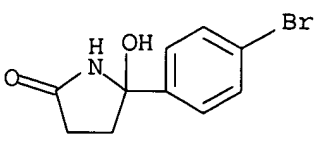
AB Unsatd. lactones of the type R'C:CH.CH2.CO.O (I) react with NH3 and monosubstituted amines to give pyrrolidones, R'(OH)C.CH2. CH2.CO.NR (II), the structure of which has been confirmed in several cases by synthesis from the corresponding succinimide and Grignard compound The N-alkyl-substituted pyrrolidones are all amphoteric, readily decomposed by acid into the corresponding γ-keto acid and stable in alkaline solution γ-Methyl-δβ-crotonolactone (I, R' = Me) and a slight excess of PhNH2, heated 3 min. at 180° and carefully acidified with dilute HCl, give 2-hydroxy-1-phenyl-2-methyl-5-pyrrolidone (III) (II, R = Ph, R' = Me), m. 101°; it is readily soluble in cold 2 N NaOH and does not liberate PhNH2 after boiling 3 min.; the 6 N HCl solution liberates PhNH2 on warming. Addition of Br in AcOH gives the 1-p-bromophenyl derivative, m. 159-61° (decomposition), also prepared from I (R' = Me) and p-BrC6H4NH2. III was also prepared from succinanil and MeMgI after refluxing 4-5 hrs.

γ-Phenyl-δβ-crotonolactone (IV) and concentrated NH4OH, warmed 0.5 min., give 2-hydroxy-2-phenyl-5-pyrrolidone (V) (II, R = H, R' = Ph), m. 123 5° (decomposition); dilute Na2CO3 gives a purple solution; boiling with 2 N NaOH gives a tar and NH3; warming with concentrated HCl for 3 min. gives BzCH2CH2CO2H and NH3; it is soluble in 6 N HCl but not in alkali and is recovered unchanged after treatment with Ac2O, Me2SO4 in alkali and NaNO2 in AcOH. IV and 33% aqueous MeNH2 react vigorously; after passing through green and violet stages, the solution becomes yellow on warming for 20 sec., giving the 1-Me derivative of V, m. 130-5° (decomposition); it dissolves readily in 2 N NaOH, from which it is recovered unchanged; it is also soluble in 6 N HCl but decomps. on warm-ing; alc. NaOH yields an unstable Na derivative, hydrolyzed by H2O to the original compound and giving with Me2SO4 a yellow unsatd. compound IV and 33% aqueous EtNH2 on mixing show color changes from green through violet to pink and give a nearly quant. yield of 2-hydroxy-2-phenyl-1-ethyl-5-pyrrolidone, (II, R = Et, R' = Ph), m. 85-7°; its behavior toward NaOH and HCl is similar to that of the Me derivative; PrNH2 gives the 1-Pr analog, prisms from H2O or leaflets from C6H6-petr. ether, m. 85-6°; it is only slightly soluble in NaOH but dissolves readily in 10 N HCl, which decomps. it on warming. IV and PhNH2, boiled 2 min., give 2-hydroxy-1,2-diphenyl-5-pyrrolidone (II, R = R' = Ph), m. 148-9°; it is insol. and quite stable in HCl and in NaOH but is slowly decomposed by hot aqueous alc. HCl; Br in AcOH gives the 1-p-bromophenyl derivative, m. 166°, also prepared from IV and p-BrC6H4NH2; hot aqueous alc. HCl gives BzCH2CH2CO2H and p-BrC6H4NH2, p-MeC6H4COCH2CH2CO2H (6.4 g.) and 4.2 g. Ac2O, warmed at 100° for 0.5 hr., give 4 g. of γ-p-tolyl-δβ-crotonolactone (V) (I, R' = p-MeC6H4), salmon-pink, m. 111°; heating V with excess concentrated NH4OH at 100° for 20 min. gives 2-hydroxy-2-p-tolyl-5-pyrrolidone (VI), cream, m. 165-7° (decomposition); Limpricht and Doll (Ann. 312, 111(1900)) formulated this as an open-chain amide; it is decomposed by HCl or NaOH. V and 33% aqueous MeNH2 give the 1-Me derivative of VI, hexagonal leaflets with 0.5 mol. H2O (rapid cooling of concentrated solution), m. 92-3°, or anhydrous prisms (slow cooling), m. 132-40°; it is stable in 2 N NaOH but is decomposed by HCl; this also results from succinomethylimide (VII) and p-MeC6H4MgCl, p-BrC6H4COCH2CH2CO2H and Ac2O at 100° for 1 hr. give 60% of γ-p-bromophenyl-β-crotonolactone (VIII), m. 115-30°; warming with excess NH4OH for 2 min. gives 2-hydroxy-2-p-bromophenyl-5-pyrrolidone (IX), yellow, m. 169-71° (decomposition); VIII and 33% aqueous MeNH2, warmed 1 min., give the 1-Me derivative of IX, m. 145-8° (decomposition); this also results from VII and p-BrC6H4MgBr. p-MeOC6H4CH2CH2CO2H and Ac2O, warmed at 100° for 10 min., give γ-p-methoxyphenyl-γβ-crotonolactone, pink, m. 110-11°; warming with concentrated NH4OH at 100° for about 3 min. gives 2-hydroxy-2-p-methoxyphenyl-5-pyrrolidone, yellow, m. 133-5° (some decomposition); 33% aqueous MeNH2 gives the 1-Me derivative, m. 88-92°.

IT **861036-01-3**, 2-Pyrrolidone, 5-(p-bromophenyl)-5-hydroxy- (preparation of)

RN 861036-01-3 HCAPLUS

CN 2-Pyrrolidone, 5-(p-bromophenyl)-5-hydroxy- (4CI) (CA INDEX NAME)



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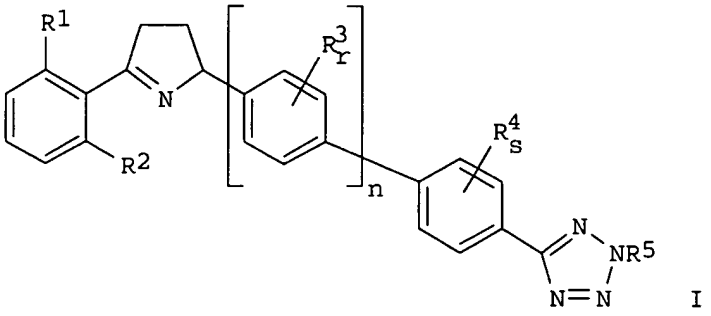
L22 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:733857 HCAPLUS
DOCUMENT NUMBER: 137:263039
TITLE: Preparation of pyrrolyl(bi)phenyl-2H-tetrazoles as **pesticides**
INVENTOR(S): Plant, Andrew; Maurer, Fritz; Marhold, Albrecht; Erdelen, Christoph; Turberg, Andreas; Hansen, Olaf
PATENT ASSIGNEE(S): Bayer AG, Germany
SOURCE: Ger. Offen., 36 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10113965	A1	20020926	DE 2001-10113965	20010322
CA 2441334	AA	20021003	CA 2002-2441334	20020312
WO 2002076978	A1	20021003	WO 2002-EP2684	20020312
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1379521	A1	20040114	EP 2002-722207	20020312
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2002008295	A	20040413	BR 2002-8295	20020312
CN 1509284	A	20040630	CN 2002-809773	20020312
JP 2004529131	T2	20040924	JP 2002-576236	20020312
US 2004152904	A1	20040805	US 2003-472270	20031212

PRIORITY APPLN. INFO.: DE 2001-10113965 A 20010322
WO 2002-EP2684 W 20020312

OTHER SOURCE(S): MARPAT 137:263039
GI



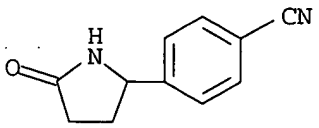
I

AB Title compds. [I; R1 = halo, Me; R2 = H, halo; R3, R4 = halo, (substituted) alkyl, alkoxy; R5 = H, alkylcarbonyl, (substituted) alkyl, alkylsulfonyl, cycloalkyl; n = 0, 1; r, s = 0-2], were prepared Thus, a mixture of 2-(4-bromophenyl)-5-(2,6-difluorophenyl)-3,4-dihydro-2H-pyrrole, 4,4,4',4',5,5,5',5'-octamethyl-2,2'-bi-1,3,2-dioxaborolan, KOAc, and PdCl2dppf was heated with DMF under Ar-atmospheric followed by cooling and addition of 2-ethyl-5-(4-bromophenyl)-2H-tetrazole (preparation given) to give, after 16 h stirring at 80°, 62% 5-(4'-[5-(2,6-difluorophenyl)-3,4-dihydro-2H-pyrrol-2-yl]-1,1'-biphenyl-4-yl)-2-ethyl-2H-tetrazole. The latter was said to kill of Heliothis virescens-caterpillars on Glycine max with a good efficiency.

IT **339087-31-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of pyrrolyl(bi)phenyl-2H-tetrazoles as **pesticides**)

RN 339087-31-9 HCAPLUS

CN Benzonitrile, 4-(5-oxo-2-pyrrolidinyl)- (9CI) (CA INDEX NAME)



L22 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:240723 HCAPLUS

DOCUMENT NUMBER: 136:279329

TITLE: Preparation of optically active 2,5-diaryl-3,4-dihydropyrroles as **pesticides**

INVENTOR(S): Plant, Andrew; Geller, Thomas; Gallenkamp, Bernd; Grosser, Rolf; Marhold, Albrecht; Erdelen, Christoph; Turberg, Andreas; Hansen, Olaf

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 129 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 2002024643	A1	20020328	WO 2001-EP10424	20010910
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10047110	A1	20020418	DE 2000-10047110	20000922
AU 2002013897	A5	20020402	AU 2002-13897	20010910
CA 2422958	AA	20030319	CA 2001-2422958	20010910
BR 2001014062	A	20030701	BR 2001-14062	20010910
EP 1322607	A1	20030702	EP 2001-982267	20010910
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004509166	T2	20040325	JP 2002-529056	20010910
NZ 524813	A	20040924	NZ 2001-524813	20010910
EG 23084	A	20040331	EG 2001-997	20010918
US 2004059129	A1	20040325	US 2003-380433	20030728
PRIORITY APPLN. INFO.:			DE 2000-10047110 A	20000922
			WO 2001-EP10424 W	20010910

OTHER SOURCE(S): MARPAT 136:279329

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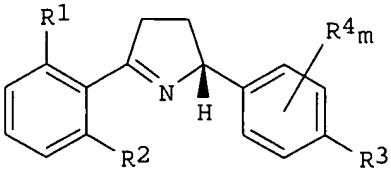


I

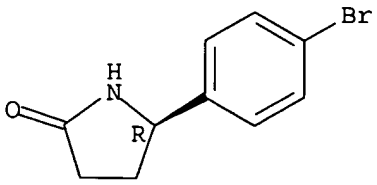
AB Title compds. [I; * = C with (R) configuration; m = 0-4; R1 = halo, Me; R2 = H, halo; R3 = H, halo, OH, (halo)alkyl, (halo)alkenyl, alkynyl, alkoxy, S(O)oR6, etc.; R4 = halo, (halo)alkyl, (halo)alkoxy, S(O)oR6; o = 0-2; R6 = H, (halo)alkyl], were prepared Thus, (+/-)-5-(2,6-difluorophenyl)-2-[4'-(trifluoromethoxy)-1,1'-biphenyl-4-yl]-3,4-dihydro-2H-pyrrole in n-heptanol/isopropanol was fractionally chromatographed with silica gel Chiralcel OD by HPLC to give 87.3% (2R)-5-(2,6-difluorophenyl)-2-[4'-(trifluoromethoxy)-1,1'-biphenyl-4-yl]-3,4-dihydro-2H-pyrrole (ee = 99.5%). The latter at 8 ppm gave 100% kill of Heliothis armigera after 6 days.

IT **405522-18-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of optically active diaryldihydropyrroles as **pesticides**)

RN 405522-18-1 HCAPLUS

CN 2-Pyrrolidinone, 5-(4-bromophenyl)-, (5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:260281 HCAPLUS
DOCUMENT NUMBER: 132:279107
TITLE: Preparation of 5-aryl-2-heteroaryl-3,4-dihydro-2H-pyrroles as **pesticides.**
INVENTOR(S): Plant, Andrew; Alig, Bernd; Graff, Alan; Kraatz, Udo; Kramer, Wolfgang; Erdelen, Christoph; Turberg, Andreas; Mencke, Norbert
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 239 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000021958	A1	20000420	WO 1999-EP7295	19991001
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19847076	A1	20000420	DE 1998-19847076	19981014
AU 9961988	A1	20000501	AU 1999-61988	19991001
AU 761113	B2	20030529		
EP 1121357	A1	20010808	EP 1999-948915	19991001
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9915544	A	20010814	BR 1999-15544	19991001
JP 2002527437	T2	20020827	JP 2000-575864	19991001
US 6599924	B1	20030729	US 2001-807136	20010405

PRIORITY APPLN. INFO.:
DE 1998-19847076 A 19981014
WO 1999-EP7295 W 19991001

OTHER SOURCE(S): MARPAT 132:279107
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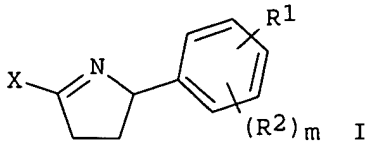


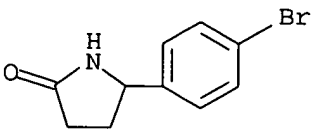
I

AB Title compds. [I; X = (substituted) 5-10 membered mono- or bicyclic heterocyclyl; R1 = halo, XA, BZD, YE; m = 0-4; R2 = H, halo, cyano, NO2, alkyl, alkoxy, haloalkyl, haloalkoxy, alkoxyalkoxy, SR3, SOR3, SO2R3; R3 = alkyl, haloalkyl; X = bond, O, S, CO, CO2, etc.; A = (substituted) Ph, naphthyl, tetrahydronaphthyl, 5-10 membered heterocyclyl; B = (substituted) p-phenylene; Z = O, S; D = H, alkyl, alkenyl, alkynyl, haloalkyl, haloalkenyl, (substituted) cycloalkyl, cycloalkenyl, phenylalkyl, etc.; ZD = (substituted) phenoxyalkyl; Y = bond, O, S, CO, CO2, alkylene, alkenylene, alkynylene, etc.; E = H, alkyl, alkenyl, alkynyl, haloalkyl, haloalkenyl, (substituted) cycloalkenyl, Ph, 5-6 membered heteroaryl], were prepared Thus, furan in THF at -30° was treated with BuLi and then with a solution of N-tert-butoxycarbonyl-γ-(4'-trifluoromethoxybiphen-4-yl)-γ-butyrolactam (preparation given) in THF followed by 2 h stirring at -20° and stirring overnight at room temperature to give 86% BOC-protected aminoketone, which was stirred overnight with CF3CO2H to give 86% 2-(2-furyl)-5-(4'-trifluoromethoxybiphen-4-yl)-3,4-dihydro-2H-pyrrole. Tested I at 0.1% on bean plants gave ≥95% kill of organophosphate-resistant Tetranychus urticae.

IT **207989-90-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 5-aryl-2-heteroaryl-3,4-dihydro-2H-pyrroles as **pesticides**)

RN 207989-90-0 HCAPLUS

CN 2-Pyrrolidinone, 5-(4-bromophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:753208 HCAPLUS

DOCUMENT NUMBER: 131:351232

TITLE: Preparation of 5-aryl-2-(2-chlorophenyl)-3,4-dihydro-2H-pyrroles as **pesticides.**

INVENTOR(S): Plant, Andrew; Graff, Alan; Kraatz, Udo; Erdelen, Christoph; Turberg, Andreas; Mencke, Norbert

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: PCT Int. Appl., 159 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9959968	A1	19991125	WO 1999-EP3063	19990505
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19822247	A1	19991125	DE 1998-19822247	19980518
CA 2332723	AA	19991125	CA 1999-2332723	19990505
AU 9941384	A1	19991206	AU 1999-41384	19990505
AU 747396	B2	20020516		
BR 9910539	A	20010116	BR 1999-10539	19990505
TR 200003389	T2	20010221	TR 2000-200003389	19990505
EP 1080072	A1	20010307	EP 1999-924878	19990505
EP 1080072	B1	20040804		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				
JP 2002515483	T2	20020528	JP 2000-549587	19990505
AT 272622	E	20040815	AT 1999-924878	19990505
ES 2224666	T3	20050301	ES 1999-924878	19990505
US 6489490	B1	20021203	US 2000-700289	20001113
PRIORITY APPLN. INFO.:			DE 1998-19822247 A	19980518
			WO 1999-EP3063 W	19990505

OTHER SOURCE(S): MARPAT 131:351232

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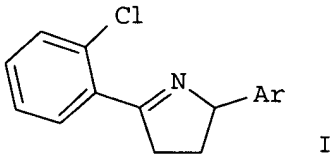


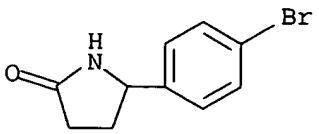
I

AB Title compds. (I; Ar = substituted Ph), were prepared Thus, 2-(2-chlorophenyl)-5-(4-bromophenyl)-3,4-dihydro-2H-pyrrole (preparation given) was stirred with 4-trifluoromethoxyphenylboronic acid, K2CO3, and Pd(PPh3)2Cl2 in dimethoxyethane/H2O to give 11.2% 2-(2-chlorophenyl)-5-(4-trifluoromethoxy-4,4'-biphenyl-1-yl)-3,4-dihydro-2H-pyrrole. The latter at 0.004% on soybeans gave 100% kill of Heliothis armigera.

IT **207989-90-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 5-aryl-2-(2-chlorophenyl)-3,4-dihydro-2H-pyrroles as **pesticides**)

RN 207989-90-0 HCAPLUS

CN 2-Pyrrolidinone, 5-(4-bromophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:753207 HCAPLUS
DOCUMENT NUMBER: 131:351231
TITLE: Preparation of 2-(2-methylphenyl)-5-aryl-3,4-dihydro-2H-pyrroles as **pesticides.**
INVENTOR(S): Plant, Andrew; Backhaus, Dirk; Erdelen, Christoph; Turberg, Andreas; Mencke, Norbert
PATENT ASSIGNEE(S): Bayer A.-G., Germany
SOURCE: PCT Int. Appl., 146 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 9959967	A1	19991125	WO 1999-EP3062		19990505
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM					
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG					
DE 19822245	A1	19991125	DE 1998-19822245		19980518
CA 2332522	AA	19991125	CA 1999-2332522		19990505
AU 9940369	A1	19991206	AU 1999-40369		19990505
AU 742032	B2	20011213			
BR 9910540	A	20010130	BR 1999-10540		19990505
EP 1077938	A1	20010228	EP 1999-923526		19990505
EP 1077938	B1	20050413			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI					
TR 200003390	T2	20010321	TR 2000-200003390		19990505
JP 2002515482	T2	20020528	JP 2000-549586		19990505
AT 293099	E	20050415	AT 1999-923526		19990505
US 6632833	B1	20031014	US 2000-700288		20001113
PRIORITY APPLN. INFO.:			DE 1998-19822245	A	19980518
			WO 1999-EP3062	W	19990505

OTHER SOURCE(S): MARPAT 131:351231
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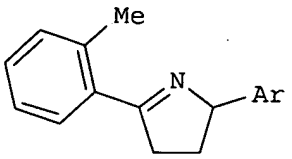


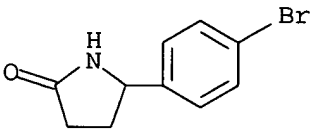
I

AB Title compds. [I; Ar = (substituted) Ph], were prepared Thus, 1-tert-butoxycarbonylamino-1-[4'-trifluoromethoxybiphenyl-4-yl]-3-[O-methylbenzoyl]propane (preparation given) in CH2Cl2 was treated with CF3CO2H to give 93.1% 2-(2-methylphenyl)-5-[4'-trifluoromethoxybiphen-4-yl]-3,4-dihydro-2H-pyrrole. The latter at 0.004% on cabbage leaves gave 100% kill of Plutella xylostella after 6 days.

IT **207989-90-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 2-(2-methylphenyl)-5-aryl-3,4-dihydro-2H-pyrroles as **pesticides**)

RN 207989-90-0 HCAPLUS

CN 2-Pyrrolidinone, 5-(4-bromophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

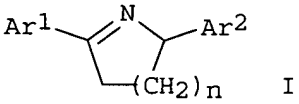
L22 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:352816 HCAPLUS
DOCUMENT NUMBER: 129:27884
TITLE: Preparation of aryl-substituted cyclic imines as **pesticides.**
INVENTOR(S): Plant, Andrew; Kleefeld, Gerd; Potter, Thorsten; Erdelen, Christoph; Mencke, Norbert; Turberg, Andreas; Wachendorff-Neumann, Ulrike
PATENT ASSIGNEE(S): Bayer A.-G., Germany; Plant, Andrew; Kleefeld, Gerd; Potter, Thorsten; Erdelen, Christoph; Mencke, Norbert; Turberg, Andreas; Wachendorff-Neumann, Ulrike
SOURCE: PCT Int. Appl., 128 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9822438	A1	19980528	WO 1997-EP6186	19971107
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG,				

US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

DE 19648011	A1	19980528	DE 1996-19648011		19961120
AU 9853197	A1	19980610	AU 1998-53197		19971107
AU 737059	B2	20010809			
EP 942901	A1	19990922	EP 1997-950138		19971107
EP 942901	B1	20030305			
R: BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, PT					
CN 1244860	A	20000216	CN 1997-181458		19971107
BR 9713520	A	20000321	BR 1997-13520		19971107
NZ 335798	A	20001027	NZ 1997-335798		19971107
JP 2001506592	T2	20010522	JP 1998-523151		19971107
EP 1306371	A1	20030502	EP 2003-371		19971107
R: BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, PT					
PT 942901	T	20030731	PT 1997-950138		19971107
ES 2190803	T3	20030816	ES 1997-950138		19971107
IL 129857	A1	20040219	IL 1997-129857		19971107
TW 572730	B	20040121	TW 1997-86117105		19971117
KR 2000053185	A	20000825	KR 1999-704146		19990510
US 6274613	B1	20010814	US 1999-297964		19990511
US 6399771	B1	20020604	US 2000-659041		20000909
US 2002151571	A1	20021017	US 2001-28648		20011219
US 6770595	B2	20040803			
US 2004186287	A1	20040923	US 2004-768294		20040130
PRIORITY APPLN. INFO.:			DE 1996-19648011	A	19961120
			EP 1997-950138	A3	19971107
			WO 1997-EP6186	W	19971107
			US 1999-297964	A3	19990511
			US 2000-659041	A3	20000909
			US 2001-28648	A3	20011219

OTHER SOURCE(S): MARPAT 129:27884
GI



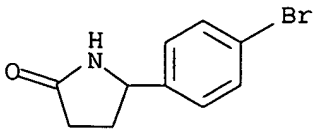
I

AB Title compds. (I; Ar1, Ar2 = (substituted) Ph; n = 1, 2, 3), were prepared Thus, 1-tert-butoxycarbonylamino-3-(2,6-difluorobenzoyl)-1-phenylpropane (preparation given) was treated with CF3CO2H at 0° to room temperature to give 83% 2-(2,6-difluorophenyl)-5-phenyl-3,4-dihydro-2H-pyrrole. The latter at 0.1% gave 90% kill of Myzus persicae on cabbage leaves.

IT **207989-90-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of aryl-substituted cyclic imines as **pesticides**)

RN 207989-90-0 HCAPLUS

CN 2-Pyrrolidinone, 5-(4-bromophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	79.00	711.12

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-10.95	-27.74

STN INTERNATIONAL LOGOFF AT 16:33:35 ON 29 AUG 2005